



AG-BU-2291-1984

Agricultural Extension Service  
University of Minnesota

**Data From:**

Becker  
Crookston  
Grand Rapids  
Lamberton  
Morris  
Rosemount  
St. Paul  
Staples  
Waseca

**C.A.W.A.P.\***

**1983 Crop Season  
Climatic Data  
University of Minnesota  
Agricultural Experiment Station  
Research Locations**

**\*University of Minnesota Cooperative  
Agricultural Weather Advisory Program**

**Mark W. Seeley and Gregory J. Spoden  
Department of Soil Science**

This archival publication may not reflect current scientific knowledge or recommendations.  
Current information available from University of Minnesota Extension: <http://www.extension.umn.edu>

UNIVERSITY OF MINNESOTA AGRICULTURAL EXPERIMENT STATION  
 AGRICULTURAL CLIMATIC DATA  
 1983

The following data characterize the environmental conditions during the 1983 crop season at 9 research sites of the University of Minnesota Agricultural Experiment Station. These data were collected using standard sets of manual and electronic instrumentation. Equipment and labor costs were partially covered by grants from the Minnesota Wheat Research and Promotion Council, the Minnesota Soybean Research and Promotion Council, and the Cenex Foundation. Efforts were made to standardize sensor types, placement, orientation, and frequency of readings.

The following environmental measurements were collected each day:

MAX AIR TEMP	maximum air temperature in degrees Celsius from a sheltered thermistor at 1.5m above the ground.
MIN AIR TEMP	minimum air temperature in degrees Celsius from a sheltered thermistor at 1.5m above the ground.
PRE	total precipitation in mm from a standard National Weather Service stick gauge.
PAN	total evaporation in mm from a standard National Weather Service evaporation pan.
SOL	solar energy flux density, or incident shortwave radiation received on a horizontal surface expressed as kilowatt-hours (kWhr)/square meter.
RH MAX	maximum relative humidity (%)
RH MIN	minimum relative humidity (%)
ACCUM D.D.	accumulated degree days above a specified base temperature value (4.44, 7.22, 10, or 10/30 degrees C).
MAX SOIL TEMP	soil maximum temperature in degrees Celsius at noted depth (5, 10, or 20 cm) under bare surface conditions.
MIN SOIL TEMP	soil minimum temperature in degrees Celsius at noted depth (5, 10, or 20 cm) under bare surface conditions.
WIND SPD	mean wind speed at a height of 3m expressed as m/sec.
VECT MAG	vector wind speed from the dominant direction. It can be considered as a trajectory for airborne materials. Measured at 3m height.
VEC DIR	dominant wind direction or trajectory in degrees (0 to 360) measured at 3m height.
VEC STD	standard deviation in wind direction in degrees.
LF WT	an index for the occurrence and/or duration of leaf wetness caused by formation of dew, fog, or precipitation. This index will range from 0 to 100, with 0 indicating dryness throughout the day and larger numbers indicating the relative duration of wet surface conditions. This sensor was placed at a height of 0.5m.
VAP PR	mean vapor pressure, or partial pressure due to the presence of water vapor in the air, which is expressed as kilopascals (kPa).
VAP PRES DEF	vapor pressure deficit, or the difference between mean measured vapor pressure (e) and the total vapor pressure possible (es) if the air were saturated at the ambient temperature. Expressed as kilopascals (kPa).

Monthly temperatures, precipitation, and degree days, including departures from normal, are summarized in Tables 1 through 6. Daily measurements at each location for the period April 1 through October 31 follow. Monthly means or totals are shown for each measurement following the last day of each month. Missing values are noted and may be due to a number of problems related to sensor installation, or malfunction of the data logger, cassette tape recorder, or transmission to computer storage. An asterick is used following dates when data shown represent manual observations recorded from standard National Weather Service instruments or equipment which differed in some way from the standard set of electronic sensors. Data marked by an asterick also differ in the time of observation. At Rosemount and St Paul, data were recorded at 5 pm each day. All other sites made manual observations at 8 am. For dates shown without an asterick, electronic readings were summarized as means or totals on a midnight to midnight basis. Other discrepancies and inconsistencies in the data are explained in the notes on the last page.

This publication is intended to provide researchers with sufficient environmental data to interpret field responses of crops and crop pests. Undoubtedly, there are many other applications for these data. However, the major objective is to provide a data source for researchers and therefore all measurements are noted in standard scientific units. For conversion factors to other units of measure or for questions related to interpretations of biological responses to these environmental characteristics, users can call the extension service climatology office.

\*\*\*\*\*  
 Acknowledgements: The authors wish to express their thanks to the personnel of the Agricultural Experiment Station and Agricultural Extension Service who helped to install and maintain the equipment used, and who so diligently collected data throughout the crop season. Special thanks are expressed to the following:

Personnel	Location
Mel Wiens/Hal Werner/Barry Torp	Staples
Bill Connelly/Glenn Titrud	Becker
Steve Johnson	Rosemount
Vernon Ferch/Pat Kelly	Waseca
Tony Strasser	Lamberton
Craig Schrader/Sam Evans	Morris
Russ Seiverson	Crookston
Jim Anderson/Joe Rust	Grand Rapids
Jeff Schmidt	St Paul

\*\*\*\*\*

## NOTES

1. Temperature and degree day normals shown in Tables 1, 3, 4, 5, and 6 were corrected for bias due to time of observation and represent values based on a midnight to midnight observation cycle. They are likely to differ from those published by the National Climatic Center.
2. Temperature, degree day, and precipitation normals were derived from records for the 1951 to 1980 period unless otherwise noted.
3. Because of relatively brief record histories at Staples, Becker, St. Paul, and Lamberton, historical normals from nearby locations, or shorter term averages, were used in calculating temperature, degree day, and precipitation departures.
4. Except for St Paul and Rosemount, all sites recorded precipitation data at 8 am. Any precipitation recorded was lagged one day to show that it occurred on the previous calendar date.
5. Except for St Paul, which recorded pan evaporation at 5 pm, all sites recorded pan evaporation at 8 am. These data were lagged one day, since the majority of the evaporation was likely to have occurred on the previous calendar date.
6. Daily evaporation readings were not always taken at Becker, Staples, and Rosemount. For selected periods, total evaporation was equally divided among the number of days between readings, or daily estimates were made using solar radiation data, temperature data, or other pan data.
7. Following the last date in each month, a monthly summary is shown for each measurement using means (MN) or totals (TOT). An M designates missing data.
8. Periodic missing data generally indicate sensor failure. For dates marked by an asterick, some or all of the following sensors were used: air temperatures were measured using standard mercury and alcohol max/min thermometers; solar radiation was measured using either an Eppley pyranometer or a Yellow Springs Instrument Quantum Sensor; and soil temperatures were measured using either Palmer max/min dial thermometers or thermocouples.
9. Except for the base 10/30 method, all degree days were calculated in the following manner:

$$[(T_{\max} + T_{\min})/2] - B = \text{daily degree day}$$

where B represents a base temperature value of 4.44, 7.22 or 10 degrees Celsius. The base 10/30 method is calculated the same as above, with the following modifications: If the minimum temperature for the day was below 10 degrees C, a daily mean temperature is computed using 10 degrees as the daily minimum temperature; if the maximum temperature exceeded 30 degrees C, the daily mean temperature is computed using 30 degrees as the daily maximum temperature. Thus, the occurrence of values less than 10 degrees or more than 30 degrees are ignored in computing degree days by this method.

10. Extraordinary pan evaporation values in excess of 10 mm may be due to measurement error, or splash loss caused by strong winds, intense rainfall or hail.

TABLE 1.

MEAN MONTHLY TEMPERATURE AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	4.5 -0.2	10.2 -2.0	18.5 +0.9	22.9 +2.6	22.7 +3.2	14.1 +0.5	6.6 -0.7
MORRIS DEP.	5.0 -1.3	12.1 -1.3	18.7 -0.2	23.7 +2.5	23.6 +3.4	15.5 +1.1	7.6 -0.6
GRAND RAPIDS DEP.	4.1 0.0	10.0 -1.0	17.2 +1.0	22.0 +3.2	21.8 +4.4	13.9 +2.0	6.6 +0.1
STAPLES DEP. (1)	4.4 -0.8	10.8 -1.5	17.8 +0.1	22.7 +2.3	22.9 +3.6	14.7 +1.3	6.9 -0.5
BECKER DEP. (2)	5.0 -1.2	11.7 -1.6	19.0 +0.6	24.1 +3.1	23.9 +4.3	15.9 +1.7	8.0 -0.3
LAMBERTON DEP. (3)	5.1 -2.4	12.6 -1.9	19.9 -0.2	25.2 +3.1	24.4 +3.8	16.8 +1.2	9.0 -0.7
WASECA DEP.	4.9 -2.0	12.3 -1.6	19.8 +0.6	24.5 +3.2	24.2 +4.2	16.7 +1.8	9.0 +0.1
ROSEMOUNT DEP.	5.1 -1.4	12.3 -1.0	19.5 +0.8	24.2 +2.9	23.4 +3.6	16.4 +1.7	9.6 +0.8
ST. PAUL DEP. (4)	5.6 -2.2	12.9 -1.8	20.4 +0.3	25.0 +2.1	24.8 +3.3	17.3 +1.5	10.2 +0.4

(1) DEPARTURE FROM WADENA NORMALS

(2) DEPARTURE FROM ST. CLOUD NORMALS

(3) DEPARTURE FROM SPRINGFIELD NORMALS

(4) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(TEMPERATURE NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)

TABLE 2.

TOTAL MONTHLY PRECIPITATION AND DEPARTURE FROM NORMAL  
(MILLIMETERS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	5.34 -29.97	66.54 +10.66	131.83 +40.14	46.22 -34.30	116.08 +38.86	76.20 +17.02	39.61 +4.30
MORRIS DEP.	21.32 -40.91	54.09 -19.82	93.73 -5.58	109.73 +26.16	132.83 +53.33	49.78 +1.27	52.06 +5.07
GRAND RAPIDS DEP.	24.64 -25.91	46.74 -33.52	103.35 +7.08	131.82 +27.17	204.98 +119.13	72.89 -3.06	61.21 +9.90
STAPLES DEP. (1)	18.28 -44.71	73.16 -3.29	292.31 +180.55	68.32 -32.77	17.01 -70.37	49.99 -13.00	46.93 +1.21
BECKER DEP. (2)	57.92 +5.09	44.70 -47.76	312.90 +200.89	69.34 -24.64	104.15 -7.10	86.85 +13.44	84.59 +34.81
LAMBERTON DEP. (3)	57.90 -5.85	108.73 +27.20	162.83 +76.47	40.91 -54.85	42.93 -21.33	58.67 -12.20	30.23 -28.70
WASECA DEP.	105.66 +38.60	125.48 +29.98	200.90 +87.11	46.98 -55.13	117.09 +15.49	107.44 +22.10	80.52 +27.43
ROSEMOUNT DEP.	92.71 +30.23	171.70 +77.97	105.42 -15.74	104.15 +2.80	56.64 -52.33	109.73 +29.21	81.80 +25.41
ST. PAUL DEP. (4)	76.44 +14.71	94.75 +3.56	111.74 +0.24	105.39 +14.46	96.53 -0.75	89.42 +11.95	62.74 +1.53

- (1) DEPARTURE FROM WADENA NORMALS  
 (2) DEPARTURE FROM ELK RIVER NORMALS  
 (3) DEPARTURE FROM 1960 - 1982 AVERAGE  
 (4) DEPARTURE FROM 1961 - 1980 AVERAGE

TABLE 3.

TOTAL DEGREE DAYS (BASE 4.44) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	46 -30	182 -62	421 +28	571 +79	564 +99	288 +16	80 -43
MORRIS DEP.	56 -47	236 -44	425 -7	597 +76	594 +107	333 +34	102 -39
GRAND RAPIDS DEP.	41 -20	173 -39	383 +31	544 +98	537 +137	285 +61	75 -30
STAPLES DEP. (1)	47 -32	197 -52	402 +2	565 +71	570 +110	308 +42	83 -42
BECKER DEP. (2)	62 -36	223 -51	436 +19	610 +97	604 +134	342 +52	117 -27
LAMBERTON DEP. (3)	65 -51	252 -59	461 -8	641 +96	618 +118	372 +38	145 -31
WASECA DEP.	65 -38	243 -50	460 +18	621 +98	611 +132	367 +54	145 -15
ROSEMOUNT DEP.	63 -39	243 -35	452 +23	611 +90	587 +110	357 +52	163 +5
ST. PAUL DEP. (4)	74 -57	262 -58	478 +10	638 +68	629 +102	386 +46	178 -2

(1) DEPARTURE FROM WADENA NORMALS

(2) DEPARTURE FROM ST. CLOUD NORMALS

(3) DEPARTURE FROM SPRINGFIELD NORMALS

(4) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(DEGREE DAY NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)



TABLE 4.

TOTAL DEGREE DAYS (BASE 7.22) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	20 -21	111 -57	338 +27	485 +79	478 +99	209 +17	25 -48
MORRIS DEP.	25 -34	152 -49	342 -7	510 +76	508 +107	254 +37	36 -49
GRAND RAPIDS DEP.	16 -14	94 -47	300 +31	458 +98	451 +137	208 +63	27 -31
STAPLES DEP. (1)	18 -23	117 -53	318 +2	478 +71	484 +110	229 +43	28 -45
BECKER DEP. (2)	30 -24	139 -54	352 +19	524 +97	518 +134	263 +55	52 -35
LAMBERTON DEP. (3)	34 -31	167 -60	378 -8	555 +96	532 +118	293 +43	71 -42
WASECA DEP.	34 -21	158 -52	377 +18	535 +98	525 +132	289 +58	75 -24
ROSEMOUNT DEP.	32 -26	157 -41	368 +23	525 +90	501 +110	275 +53	90 -9
ST. PAUL DEP. (4)	43 -37	176 -61	395 +10	552 +68	543 +102	304 +47	100 -16

(1) DEPARTURE FROM WADENA NORMALS

(2) DEPARTURE FROM ST. CLOUD NORMALS

(3) DEPARTURE FROM SPRINGFIELD NORMALS

(4) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(DEGREE DAY NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)

TABLE 5.

TOTAL DEGREE DAYS (BASE 10) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	7 -11	52 -52	254 +27	399 +79	391 +99	142 +22	6 -31
MORRIS DEP.	8 -21	79 -51	259 -7	424 +76	422 +106	182 +40	13 -32
GRAND RAPIDS DEP.	5 -7	33 -50	217 +30	372 +98	364 +136	138 +59	9 -18
STAPLES DEP. (1)	5 -11	51 -54	235 +2	392 +71	398 +110	158 +44	11 -26
BECKER DEP. (2)	11 -15	67 -56	269 +18	438 +97	432 +134	191 +59	24 -22
LAMBERTON DEP. (3)	10 -20	88 -61	294 -8	469 +96	445 +118	221 +52	32 -32
WASECA DEP.	13 -11	79 -55	293 +18	449 +98	439 +131	217 +67	39 -16
ROSEMOUNT DEP.	10 -17	75 -52	285 +23	438 +90	415 +110	202 +59	45 -10
ST. PAUL DEP. (4)	19 -23	96 -65	312 +10	466 +68	457 +102	229 +51	45 -21

(1) DEPARTURE FROM WADENA NORMALS

(2) DEPARTURE FROM ST. CLOUD NORMALS

(3) DEPARTURE FROM SPRINGFIELD NORMALS

(4) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(DEGREE DAY NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)

TABLE 6.

TOTAL DEGREE DAYS (BASE 10/30) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	34 -5	116 -19	268 +32	383 +63	369 +75	168 +18	31 -34
MORRIS DEP.	45 -8	145 -13	273 +3	403 +57	401 +86	193 +25	49 -24
GRAND RAPIDS DEP.	36 +4	115 +1	239 +37	364 +88	357 +120	160 +43	36 -18
STAPLES DEP. (1)	42 +2	125 -11	251 +10	381 +61	381 +91	180 +35	44 -21
BECKER DEP. (2)	44 -7	128 -24	279 +23	411 +72	412 +113	203 +44	48 -27
LAMBERTON DEP. (3)	44 -15	143 -33	294 -9	438 +70	417 +91	233 +44	76 -18
WASECA DEP.	39 -13	127 -36	295 +18	426 +77	416 +108	232 +58	75 -10
ROSEMOUNT DEP.	45 -8	134 -22	290 +24	412 +68	397 +92	219 +50	82 -2
ST. PAUL DEP. (4)	44 -25	146 -38	312 +10	442 +55	436 +87	234 +37	82 -14

(1) DEPARTURE FROM WADENA NORMALS

(2) DEPARTURE FROM ST. CLOUD NORMALS

(3) DEPARTURE FROM SPRINGFIELD NORMALS

(4) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(DEGREE DAY NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)

B E C K E R

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 5 CM	MIN SOIL TEMP 5 CM	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83	9.4	1.1	1.02	M	2.17	M	M	0	0	M	M	7.2	2.2	M	M	M	M	M	M	M
4/ 2/83	8.3	1.1	.76	M	3.02	M	M	0	0	M	M	6.7	2.8	M	M	M	M	M	M	M
4/ 3/83	5.0	0	0	M	2.57	M	M	0	0	M	M	5.0	2.2	M	M	M	M	M	M	M
4/ 4/83	9.4	-2.2	0	M	6.00	M	M	0	0	M	M	10.6	1.1	M	M	M	M	M	M	M
4/ 5/83	8.3	-3.3	3.81	M	3.74	M	M	0	0	M	M	8.3	2.2	M	M	M	M	M	M	M
4/ 6/83	2.8	-1.1	3.05	M	2.30	M	M	0	0	M	M	4.4	1.7	M	M	M	M	M	M	M
4/ 7/83	6.1	-1.7	0	M	3.18	M	M	0	0	M	M	5.6	1.1	M	M	M	M	M	M	M
4/ 8/83	11.7	-4.4	2.29	M	6.39	M	M	0	1	M	M	11.1	.6	M	M	M	M	M	M	M
4/ 9/83	3.3	-1.1	1.02	M	1.08	M	M	0	1	M	M	5.6	1.7	M	M	M	M	M	M	M
4/10/83	11.7	.6	0	M	3.93	M	M	0	2	M	M	7.8	1.1	M	M	M	M	M	M	M
4/11/83	13.9	-1.7	6.60	M	6.31	M	M	0	4	M	M	12.8	1.7	M	M	M	M	M	M	M
4/12/83	5.0	0	19.30	M	1.08	M	M	0	4	M	M	7.2	2.8	M	M	M	M	M	M	M
4/13/83	2.8	.6	0	M	.80	M	M	0	4	M	M	3.3	2.2	M	M	M	M	M	M	M
4/14/83	1.1	-3.9	3.56	M	2.36	M	M	0	4	M	M	2.2	.6	M	M	M	M	M	M	M
4/15/83	2.2	-5.6	0	M	6.92	M	M	0	4	M	M	.6	.6	M	M	M	M	M	M	M
4/16/83	4.4	-4.4	0	M	5.28	M	M	0	4	M	M	1.1	0	M	M	M	M	M	M	M
4/17/83	4.4	-5.6	0	M	5.75	M	M	0	4	M	M	4.4	0	M	M	M	M	M	M	M
4/18/83	6.7	-5.0	0	M	5.83	M	M	0	4	M	M	7.8	.6	M	M	M	M	M	M	M
4/19/83	9.4	-3.3	0	M	6.51	M	M	0	4	M	M	10.6	1.1	M	M	M	M	M	M	M
4/20/83	13.3	-3.3	0	M	6.53	M	M	0	5	M	M	12.8	2.2	M	M	M	M	M	M	M
4/21/83	17.2	-2.8	0	M	6.85	M	M	0	9	M	M	15.0	3.9	M	M	M	M	M	M	M
4/22/83	18.9	3.3	0	M	4.77	M	M	1	13	M	M	14.4	7.2	M	M	M	M	M	M	M
4/23/83	15.6	1.1	0	M	6.85	M	M	1	16	M	M	15.0	6.7	M	M	M	M	M	M	M
4/24/83	21.7	-1.1	0	M	7.10	M	M	1	22	M	M	17.2	6.1	M	M	M	M	M	M	M
4/25/83	21.7	8.9	0	8.64	3.20	M	M	7	28	M	M	16.7	10.0	M	M	M	M	M	M	M
4/26/83	20.6	7.8	0	6.10	4.66	M	M	11	33	M	M	17.2	12.2	M	M	M	M	M	M	M
4/27/83	16.1	3.3	0	5.33	6.79	M	M	11	36	M	M	16.7	10.0	M	M	M	M	M	M	M
4/28/83	16.1	1.7	3.81	2.03	2.38	M	M	11	39	M	M	13.9	8.9	M	M	M	M	M	M	M
4/29/83	12.2	0	0	4.57	6.39	M	M	11	40	M	M	15.0	5.6	M	M	M	M	M	M	M
4/30/83	16.7	3.9	12.70	7.62	7.00	M	M	11	44	M	M	18.9	8.9	M	M	M	M	M	M	M
MONTHLY	MEAN 10.5	MEAN -.6	TOTAL 57.92	TOTAL M	MEAN 4.59	MN. M	MN. M	TOTL 11	TOT 44	MEAN M	MEAN M	MEAN 9.8	MEAN 3.6	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83	15.6	3.3	4.57	3.56	5.49	M	M	11	46	M	M	16.1	9.4	M	M	M	M	M	M	M
5/ 2/83	17.8	3.3	0	5.33	7.17	M	M	12	50	M	M	17.2	7.2	M	M	M	M	M	M	M
5/ 3/83	21.1	1.7	0	6.35	6.40	M	M	13	56	M	M	19.4	8.3	M	M	M	M	M	M	M
5/ 4/83	14.4	2.8	.51	5.59	7.25	M	M	13	58	M	M	18.9	10.0	M	M	M	M	M	M	M
5/ 5/83	21.1	6.7	0	5.33	6.66	M	M	17	64	M	M	21.1	11.1	M	M	M	M	M	M	M
5/ 6/83	15.6	4.4	1.52	3.05	1.91	M	M	17	66	M	M	16.1	10.6	M	M	M	M	M	M	M
5/ 7/83	16.1	3.3	0	4.06	7.25	M	M	17	69	M	M	18.3	8.9	M	M	M	M	M	M	M
5/ 8/83	16.7	-1.7	0	3.56	7.59	M	M	17	73	M	M	19.4	8.3	M	M	M	M	M	M	M
5/ 9/83	17.2	2.8	0	9.14	7.51	M	M	17	76	M	M	18.3	10.0	M	M	M	M	M	M	M
5/10/83	23.9	9.4	0	8.13	6.60	M	M	24	83	M	M	20.6	12.2	M	M	M	M	M	M	M
5/11/83	25.0	11.1	0	7.62	7.14	M	M	32	91	M	M	22.8	14.4	M	M	M	M	M	M	M
5/12/83	20.6	8.9	21.34	4.32	1.43	M	M	36	97	M	M	18.9	13.9	M	M	M	M	M	M	M
5/13/83	17.2	3.3	0	5.08	6.94	M	M	37	100	M	M	20.0	10.6	M	M	M	M	M	M	M
5/14/83	11.7	0	0	2.54	5.50	M	M	37	101	M	M	16.7	11.1	M	M	M	M	M	M	M
5/15/83	12.8	.6	0	5.08	3.64	M	M	37	103	M	M	15.0	8.9	M	M	M	M	M	M	M
5/16/83	16.1	0	0	3.56	8.09	M	M	37	106	M	M	20.6	8.3	M	M	M	M	M	M	M
5/17/83	20.0	.6	0	6.10	6.89	M	M	37	111	M	M	20.6	10.0	M	M	M	M	M	M	M
5/18/83	14.4	3.9	3.30	.51	1.96	M	M	37	113	M	M	15.6	12.2	M	M	M	M	M	M	M
5/19/83	11.7	9.4	.51	.51	1.28	M	M	38	114	M	M	12.8	11.7	M	M	M	M	M	M	M
5/20/83	16.7	5.6	0	6.60	3.96	M	M	39	117	M	M	17.2	10.0	M	M	M	M	M	M	M
5/21/83	22.2	5.0	0	6.35	7.40	M	M	42	123	M	M	21.7	9.4	M	M	M	M	M	M	M
5/22/83	17.8	7.8	0	9.14	6.76	M	M	45	127	M	M	21.7	14.4	M	M	M	M	M	M	M
5/23/83	23.9	3.9	0	7.62	7.17	M	M	49	134	M	M	22.8	11.7	M	M	M	M	M	M	M
5/24/83	22.8	8.3	0	7.11	6.22	M	M	54	140	M	M	23.3	16.7	M	M	M	M	M	M	M
5/25/83	17.2	1.1	0	5.59	8.26	M	M	54	144	M	M	23.3	13.3	M	M	M	M	M	M	M
5/26/83	21.7	13.8	.51	3.56	6.02	58	20	62	152	29.6	17.5	24.2	16.1	3.10	2.45	152	37	8	.61	1.51
5/27/83	20.3	10.7	4.06	2.54	3.36	96	52	68	157	25.6	15.1	21.0	16.3	2.45	1.96	100	36	11	1.36	.39
5/28/83	19.8	8.1	6.86	3.05	4.05	100	43	72	162	23.7	13.1	20.0	15.0	2.04	1.12	350	54	32	1.28	.32
5/29/83	13.6	7.4	1.52	3.81	3.55	100	68	72	164	18.3	11.0	16.0	12.8	3.48	2.91	345	33	52	1.09	.13
5/30/83	15.4	7.8	0	1.78	3.72	100	63	74	166	18.1	9.3	15.6	11.1	3.52	3.07	355	29	28	1.14	.18
5/31/83	20.9	7.8	0	5.08	6.93	100	33	78	172	25.8	9.1	21.0	10.7	2.61	2.24	346	31	14	1.04	.62
MONTHLY	MEAN 18.1	MEAN 5.2	TOTAL 44.70	TOTAL 151.65	MEAN 5.62	MN. M	MN. M	TOTL 67	TOT 128	MEAN M	MEAN M	MEAN 19.2	MEAN 11.4	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

B E C K E R

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 5 CM	MIN SOIL TEMP 5 CM	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	23.6	5.1	4.57	4.32	5.04	100	34	82	179	26.3	9.9	21.1	12.2	1.62	.91	195	53	1	1.02	.77
6/ 2/83	22.2	9.7	6.35	5.08	5.49	100	46	88	185	27.9	12.0	22.4	13.7	2.86	2.40	190	32	9	1.25	.63
6/ 3/83	21.9	10.1	8.13	6.10	6.44	100	36	94	191	25.7	14.2	22.0	15.4	2.01	1.22	331	51	34	1.41	.47
6/ 4/83	19.6	10.0	0	5.84	6.25	100	52	99	196	25.8	13.7	22.2	15.0	2.71	2.38	321	28	24	1.24	.47
6/ 5/83	19.2	7.0	0	5.08	4.31	100	38	102	200	25.2	12.4	20.6	14.8	2.43	2.06	347	32	16	1.06	.43
6/ 6/83	22.6	4.3	0	4.83	8.13	95	20	106	206	29.8	9.1	23.9	11.9	2.78	2.51	302	25	0	.73	1.09
6/ 7/83	26.0	6.8	0	4.06	8.23	89	18	112	214	32.7	12.2	26.6	14.5	1.57	.87	1	54	0	.80	1.33
6/ 8/83	28.0	9.0	0	6.35	6.52	96	30	120	223	32.6	15.0	26.3	17.0	2.16	.87	297	63	0	1.17	1.14
6/ 9/83	27.5	8.5	.51	7.11	8.39	96	22	129	232	34.3	14.8	28.6	17.2	1.58	.96	22	51	0	1.05	1.24
6/10/83	32.7	12.6	1.52	8.89	7.00	89	30	141	244	34.3	18.5	29.0	19.9	3.25	2.69	165	33	6	1.55	1.28
6/11/83	30.1	17.1	0	7.11	6.66	93	37	155	257	33.9	19.3	29.2	20.9	3.86	3.60	166	21	2	1.79	1.21
6/12/83	29.0	19.3	0	5.84	3.24	96	61	169	271	29.7	20.7	26.0	21.8	4.09	3.84	172	20	5	2.25	.60
6/13/83	27.8	17.1	19.56	6.10	3.08	99	57	181	284	30.1	19.6	26.1	21.0	4.17	3.24	179	38	28	2.13	.62
6/14/83	20.1	13.4	11.43	3.05	3.24	100	71	188	290	23.2	16.8	21.4	18.4	2.47	.42	246	74	55	1.77	.55
6/15/83	19.5	10.5	0	5.59	5.65	100	57	193	295	25.8	15.1	22.7	16.6	2.94	2.31	276	37	18	1.38	.36
6/16/83	19.7	7.8	0	3.05	4.67	100	51	197	300	27.8	13.1	23.3	15.4	1.96	1.54	303	38	14	1.20	.35
6/17/83	24.0	4.5	0	5.08	7.88	100	36	201	307	32.5	11.5	26.9	14.3	1.56	1.01	102	48	29	1.09	.83
6/18/83	22.5	13.9	0	6.60	3.83	98	67	209	316	27.6	17.8	23.9	19.0	2.50	2.50	113	29	4	1.52	.47
6/19/83	28.0	13.6	0	4.57	7.41	99	49	220	326	34.5	16.3	28.6	17.9	2.56	2.25	138	28	18	1.79	.83
6/20/83	26.6	17.2	103.60	0	4.19	99	76	232	338	29.4	19.7	26.2	20.8	2.79	2.55	143	24	13	2.29	.29
6/21/83	25.5	17.5	71.88	0	2.14	99	76	244	350	26.1	18.4	23.2	19.3	2.55	1.55	140	51	51	2.38	.16
6/22/83	30.5	17.3	0	5.59	6.03	98	57	258	363	34.7	20.9	30.1	21.1	3.32	2.31	223	45	12	2.69	.58
6/23/83	31.1	14.3	5.08	6.86	8.35	99	37	270	376	40.4	18.2	34.3	20.3	1.06	.49	40	59	20	1.88	1.13
6/24/83	28.2	18.3	1.02	4.57	4.46	99	68	283	389	33.4	20.9	28.7	22.4	1.99	1.28	139	48	15	2.23	.36
6/25/83	32.7	18.4	71.63	0	7.52	99	45	299	403	39.4	20.6	33.8	22.0	2.83	2.23	206	37	13	2.43	1.07
6/26/83	28.1	19.3	0	4.89	4.89	99	69	313	417	34.6	20.8	29.7	22.3	2.18	1.33	4	51	43	2.43	.36
6/27/83	21.1	11.9	0	6.10	5.88	92	70	319	423	32.2	19.7	28.4	21.7	3.67	3.35	47	24	0	1.60	.38
6/28/83	22.4	10.9	4.32	3.30	3.87	95	73	326	430	28.9	17.3	25.6	19.6	2.53	2.12	70	33	8	1.65	.36
6/29/83	19.3	14.0	3.05	.25	1.12	100	75	333	437	21.0	18.0	22.3	19.7	2.70	2.27	121	32	54	1.88	.11
6/30/83	30.2	18.3	.25	5.84	6.60	100	69	347	451	35.4	18.7	30.0	19.4	3.05	2.64	213	30	22	2.48	.40
MONTHLY	MEAN 25.3	MEAN 12.6	TOTAL 312.90	TOTAL 137.16	MEAN 5.55	MN. 98	MN. 51	TOTL 269	TOT 279	MEAN 30.5	MEAN 16.5	MEAN 26.1	MEAN 18.2	MEAN 2.59	MEAN 1.99	MN. 174	MN. 40	MN. 17	MEAN 1.67	MEAN .66
7/ 1/83	29.8	17.6	0	7.62	8.07	99	54	361	464	39.4	20.2	33.1	21.3	1.95	.70	295	58	32	2.67	.65
7/ 2/83	30.3	17.4	3.81	2.79	5.73	100	52	374	478	37.3	20.7	31.5	22.7	3.93	3.02	161	28	31	2.55	.49
7/ 3/83	30.3	15.7	0	5.08	2.74	98	67	387	491	33.3	19.9	29.1	22.4	2.71	.24	232	60	14	2.59	.29
7/ 4/83	22.7	13.9	0	5.08	5.10	97	64	396	499	27.8	17.9	25.1	19.9	3.73	2.90	288	38	8	1.70	.37
7/ 5/83	22.2	9.8	0	4.83	7.79	100	41	402	505	34.5	15.3	29.5	17.9	1.48	.39	349	70	10	1.27	.65
7/ 6/83	28.3	11.2	0	7.37	7.92	100	62	411	515	36.8	16.7	31.2	19.3	3.33	3.06	167	23	27	1.98	.60
7/ 7/83	31.5	19.6	0	8.64	7.01	93	56	427	530	35.8	21.6	31.6	23.1	4.96	4.78	190	15	0	2.34	.97
7/ 8/83	34.4	21.6	0	8.13	7.46	92	48	445	546	40.9	23.7	35.4	24.8	2.87	1.88	204	48	0	2.59	1.22
7/ 9/83	34.2	20.7	0	9.65	7.72	98	37	462	561	41.6	25.6	36.6	26.9	1.93	1.45	129	40	13	2.59	1.15
7/10/83	34.9	20.3	0	8.13	7.81	96	40	480	576	39.6	25.6	36.2	27.3	3.27	3.01	170	23	0	2.42	1.43
7/11/83	27.6	15.4	0	6.86	7.15	93	37	491	588	38.3	25.6	34.2	28.2	2.91	2.14	293	42	5	1.72	1.20
7/12/83	33.0	13.9	0	9.14	8.13	98	16	505	600	40.2	22.1	35.1	24.8	2.13	1.56	231	42	20	1.52	1.71
7/13/83	36.7	18.6	0	10.41	7.52	92	37	523	614	40.7	24.4	35.7	26.4	3.51	3.27	182	21	0	2.33	1.60
7/14/83	36.1	23.3	0	9.14	7.48	83	41	542	631	41.5	27.1	36.5	28.6	3.88	3.57	190	23	0	2.52	1.66
7/15/83	32.7	20.9	1.02	8.38	5.39	99	50	559	646	39.1	25.7	34.7	28.6	3.03	2.78	167	23	20	2.58	.73
7/16/83	29.9	19.9	11.94	6.35	4.18	99	61	574	661	34.0	24.6	30.9	26.3	2.46	1.79	199	42	7	2.70	.41
7/17/83	30.0	18.1	24.38	3.56	3.39	100	69	588	675	34.7	21.6	30.4	23.7	1.22	.63	113	57	42	2.43	.22
7/18/83	28.8	18.2	2.79	3.81	4.38	100	72	602	688	31.6	19.9	28.3	21.7	1.44	.90	127	50	42	2.52	.28
7/19/83	31.7	18.1	12.19	8.89	4.95	100	63	616	703	37.4	21.4	32.1	23.0	1.77	.61	86	65	40	2.62	.31
7/20/83	32.3	16.2	0	5.84	6.72	100	58	631	716	37.8	20.4	32.9	22.0	1.74	1.08	114	50	33	2.67	.49
7/21/83	34.9	21.7	0	7.37	6.27	98	58	649	731	40.7	24.6	36.0	25.6	2.47	.61	235	70	64	3.07	.94
7/22/83	31.6	19.8	0	7.87	6.29	98	61	665	746	41.6	24.7	35.8	26.3	1.59	1.28	337	35	0	2.65	.68
7/23/83	29.4	18.0	0	6.35	7.25	97	74	678	760	39.5	23.9	34.7	25.8	2.13	1.80	336	32	0	2.10	.86
7/24/83	28.8	15.4	0	4.06	5.70	100	53	690	772	35.8	22.1	32.1	24.9	1.30	1.05	11	35	20	2.05	.70
7/25/83	29.5	15.3	0	7.11	7.33	100	38	703	785	39.3	21.8	34.2	24.2	1.20	.88	68	42	30	1.78	.93
7/26/83	31.4	14.2	0	7.62	7.16	100	44	716	797	38.0	21.9	33.6	24.3	2.35	2.05	2	29	28	2.11	.85
7/27/83	24.9	18.8	1.27	1.27	2.43	100	75	728	809	28.1	22.9	28.7	24.7	2.28	2.04	167	26	18	2.40	.25
7/28/83	32.4	19.1	0	4.32	4.60	100	71	743	823	37.8	22.6	32.3	23.7	1.75	1.10	176	49	31	2.80	.37
7/29/83	35.3	18.8	11.94	6.35	7.22	99	28	760	838	41.6	22.9	36.1	24.6	1.43	.93	302	48	13	2.14	1.49
7/30/83	27.0	18.7	0	7.62	3.53	99	70	773	850	31.6	23.2	29.8	25.2	1.48	.58	101	63	18	2.49	.25
7/31/83	26.4	16.9	0	6.86	6.54	99	50	785	862	34.3	20.2	30.2	22.6	2.56	2.14	318	33	26	1.94	.68
MONTHLY	MEAN 30.6	MEAN 17.6	TOTAL 69.34	TOTAL 206.50	MEAN 6.16	MN. 98	MN. 53	TOTL 438	TOT 411	MEAN 37.1	MEAN 22.3	MEAN 32.7	MEAN 24.2	MEAN 2.41	MEAN 1.75	MN. 192	MN. 41	MN. 19	MEAN 2.32	MEAN .79

# B E C K E R

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 5 CM	MIN SOIL TEMP 5 CM	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.2	14.2	0	5.84	7.58	100	39	797	874	39.8	19.0	33.9	21.4	1.43	.64	340	61	7	1.87	.95
8/ 2/83	32.3	15.6	0	5.33	5.90	99	56	811	887	33.4	20.9	32.6	23.3	3.29	2.97	165	25	26	2.54	.76
8/ 3/83	33.6	21.8	0	8.13	7.01	95	52	829	903	41.2	25.6	35.6	26.7	2.61	1.52	2	52	0	2.90	.89
8/ 4/83	32.1	19.9	0	9.40	7.27	99	46	845	918	41.1	25.6	36.1	26.8	1.63	1.22	76	41	23	2.40	.93
8/ 5/83	32.8	17.8	0	6.10	6.64	99	50	860	932	39.3	24.4	35.4	26.6	1.26	.80	164	49	17	2.49	.80
8/ 6/83	34.8	19.1	0	9.91	7.38	97	16	877	946	41.6	26.2	36.8	27.8	1.72	1.25	15	43	0	2.21	1.53
8/ 7/83	36.7	18.5	0	9.91	7.15	98	38	895	960	41.1	24.9	36.3	27.1	3.06	2.64	228	30	0	2.33	1.70
8/ 8/83	30.1	17.6	0	9.65	7.17	91	24	908	974	39.5	26.4	35.3	28.3	2.57	2.11	6	34	0	1.63	1.49
8/ 9/83	26.4	14.7	.51	3.56	2.98	98	51	919	985	30.9	24.2	29.5	26.3	1.56	.93	129	51	3	1.91	.62
8/10/83	28.7	17.0	0	7.37	5.48	95	62	932	998	35.7	24.1	31.6	25.4	3.80	1.32	340	65	6	2.29	.65
8/11/83	25.7	14.1	0	4.57	5.60	100	46	942	1008	35.2	21.6	30.9	23.9	2.13	1.75	34	34	17	1.69	.57
8/12/83	28.3	10.9	0	5.84	7.03	100	49	951	1017	36.1	19.8	31.6	22.6	2.56	2.19	177	31	26	1.81	.71
8/13/83	32.1	17.9	0	5.08	5.30	98	36	966	1031	36.6	22.9	31.9	24.7	2.67	1.70	228	49	3	2.08	.88
8/14/83	32.2	16.3	0	5.08	5.19	100	36	981	1044	35.1	22.3	31.6	24.4	1.09	.31	170	68	29	1.97	1.11
8/15/83	34.2	16.2	0	5.84	5.77	100	49	996	1057	38.2	22.4	33.2	24.5	1.80	1.06	183	52	31	2.39	.98
8/16/83	30.4	19.2	22.86	8.13	2.36	99	72	1011	1072	31.9	22.1	29.3	23.8	1.59	.83	79	8	36	2.53	.19
8/17/83	29.1	18.6	0	3.30	4.24	99	66	1024	1086	34.4	21.3	29.9	22.7	1.46	1.04	349	43	30	2.48	.36
8/18/83	29.7	19.8	1.02	5.33	3.96	99	51	1039	1101	36.3	22.2	29.5	23.3	2.07	1.55	160	40	30	2.58	.51
8/19/83	30.0	15.6	12.45	10.16	5.71	97	26	1052	1113	34.9	21.2	30.8	24.1	2.84	1.71	303	51	8	2.16	1.06
8/20/83	26.6	13.5	.76	6.86	5.01	100	54	1062	1123	32.3	18.7	28.3	21.0	1.62	.96	134	52	30	1.82	.47
8/21/83	27.5	18.3	0	3.81	3.37	98	82	1075	1136	31.4	20.8	28.2	22.2	1.94	.72	111	64	11	2.59	.21
8/22/83	27.0	14.3	0	6.35	6.72	100	45	1086	1147	35.2	18.4	30.7	20.9	2.20	1.87	26	32	0	1.81	.75
8/23/83	27.7	14.9	0	4.06	4.41	98	66	1097	1158	32.0	19.2	28.7	21.3	1.72	1.33	129	38	0	2.13	.41
8/24/83	29.3	18.4	0	8.64	4.04	98	74	1111	1172	34.5	21.3	29.5	22.7	2.33	2.01	155	30	6	2.56	.30
8/25/83	32.3	20.4	28.45	7.62	6.13	98	60	1127	1187	37.8	22.5	32.7	23.6	3.16	2.69	186	31	16	2.72	.62
8/26/83	31.7	20.6	0	7.62	5.91	98	68	1143	1203	37.3	22.3	32.3	23.9	2.10	1.05	61	57	22	2.89	.48
8/27/83	32.3	20.9	4.83	7.37	5.00	97	56	1160	1218	37.2	23.4	32.3	24.6	1.59	.34	69	72	0	2.77	.67
8/28/83	30.5	20.7	0	7.37	5.04	98	74	1176	1233	36.7	22.8	32.4	24.4	2.59	2.01	176	38	4	2.84	.41
8/29/83	31.8	19.7	33.02	1.52	5.19	99	44	1191	1248	35.9	21.2	31.2	23.5	2.83	1.25	198	60	25	2.49	.81
8/30/83	28.0	18.0	.25	4.57	4.57	100	70	1204	1261	33.4	20.7	29.7	22.6	1.50	1.17	19	38	11	2.41	.29
8/31/83	28.4	16.1	0	6.10	6.20	100	37	1217	1274	35.4	19.4	31.2	21.6	1.27	.82	136	48	34	1.87	.77
MONTHLY	MEAN 30.4	MEAN 17.4	TOTAL 104.15	TOTAL 200.42	MEAN 5.53	MN. 98	MN. 51	TOTL 432	TOT 412	MEAN 36.2	MEAN 22.2	MEAN 31.9	MEAN 24.1	MEAN 2.13	MEAN 1.41	MN. 147	MN. 45	MN. 15	MEAN 2.30	MEAN .74
9/ 1/83	30.8	16.1	0	7.62	5.93	100	66	1230	1287	35.6	19.4	31.4	21.6	3.39	3.03	180	26	M	2.47	.50
9/ 2/83	33.7	20.0	0	6.10	5.97	97	62	1247	1302	37.6	22.1	32.9	23.7	4.28	4.09	185	17	M	2.84	.70
9/ 3/83	26.6	20.5	10.41	2.54	2.03	99	76	1260	1315	28.9	23.0	27.6	24.4	2.36	1.41	196	51	M	2.58	.30
9/ 4/83	22.2	17.6	0	6.10	.92	99	94	1270	1325	24.8	19.9	24.4	21.3	1.63	.67	32	62	M	2.32	.06
9/ 5/83	24.3	14.9	0	5.59	4.18	100	70	1280	1335	29.4	17.5	26.3	19.4	1.74	.59	346	66	M	2.02	.23
9/ 6/83	21.8	13.5	0	5.84	4.20	98	30	1288	1342	26.3	16.5	23.7	18.7	3.25	2.87	282	28	M	1.28	.67
9/ 7/83	25.2	12.1	0	13.72	5.90	100	47	1296	1351	31.5	14.6	27.0	17.0	2.24	1.09	211	58	M	1.63	.52
9/ 8/83	33.2	15.5	27.43	3.81	4.82	99	58	1311	1364	32.7	17.8	28.5	19.3	5.37	4.72	183	28	M	2.35	.89
9/ 9/83	22.8	18.8	0	3.81	1.66	99	92	1321	1374	25.4	20.2	24.0	21.5	1.46	.11	330	78	M	2.35	.09
9/10/83	22.5	11.8	8.89	2.54	3.86	99	40	1328	1382	25.1	14.8	23.2	18.0	3.40	2.63	308	39	M	1.64	.48
9/11/83	18.7	7.3	0	3.81	3.38	100	52	1331	1386	24.7	11.8	21.4	15.0	1.89	1.00	23	56	M	1.20	.29
9/12/83	18.5	7.9	0	2.79	4.31	100	55	1335	1390	23.1	11.6	20.7	14.2	2.40	2.04	4	31	M	1.26	.18
9/13/83	19.3	8.7	0	2.79	4.51	100	44	1339	1395	26.5	12.2	21.8	14.1	1.47	1.02	341	45	M	1.20	.30
9/14/83	17.4	5.3	5.59	2.03	3.00	100	58	1340	1399	21.8	9.9	18.2	12.9	2.01	1.67	138	33	M	1.17	.24
9/15/83	11.9	10.9	14.22	.51	.39	100	99	1341	1400	13.7	12.6	15.2	13.8	2.48	1.96	128	37	M	1.35	.01
9/16/83	14.8	7.6	0	2.54	1.76	100	87	1343	1402	17.7	10.7	16.5	13.0	1.79	1.60	29	26	M	1.33	.04
9/17/83	18.7	6.5	0	2.54	2.82	100	77	1345	1407	20.7	10.1	17.5	12.0	2.45	1.82	133	41	M	1.49	.11
9/18/83	18.8	11.0	0	3.30	5.34	99	28	1350	1412	24.3	13.0	21.0	14.3	2.84	2.30	290	35	M	1.03	.64
9/19/83	12.3	6.3	.76	1.27	.96	100	67	1350	1413	14.8	10.5	15.5	12.6	2.27	1.75	23	39	M	1.09	.12
9/20/83	9.8	5.5	1.52	2.29	2.31	99	75	1350	1413	14.4	7.8	13.3	10.2	3.50	3.14	312	26	M	.90	.11
9/21/83	9.5	3.9	0	1.27	2.04	99	61	1350	1413	12.7	6.5	11.8	8.8	3.12	2.83	302	25	M	.77	.19
9/22/83	10.1	-.4	0	1.27	1.93	100	59	1350	1413	13.4	4.2	11.6	7.6	2.79	2.55	321	24	M	.72	.18
9/23/83	15.6	-2.7	0	5.08	5.27	100	28	1350	1416	19.1	2.2	15.3	5.2	2.87	2.46	187	31	M	.63	.44
9/24/83	20.9	7.0	0	3.81	4.85	98	44	1354	1421	22.2	7.1	17.9	8.9	4.00	3.74	180	20	M	.98	.58
9/25/83	25.1	4.7	0	3.56	4.82	100	32	1359	1429	26.0	8.5	20.9	10.6	1.60	1.04	163	48	M	1.21	.64
9/26/83	28.4	9.6	0	3.05	4.77	100	29	1368	1438	28.0	11.5	23.0	13.2	1.11	.05	307	79	M	1.43	.77
9/27/83	30.5	11.6	0	7.11	4.64	100	24	1379	1448	28.0	13.3	23.4	14.9	3.19	2.85	175	27	M	1.43	1.07
9/28/83	28.1	16.5	.76	4.06	3.58	93	56	1391	1461	27.8	16.4	23.6	17.4	3.85	3.18	176	34	M	1.94	.68
9/29/83	17.5	14.0	8.38	.25	.55	100	92	1397	1466	20.0	16.0	20.7	16.6	1.82	1.42	23	38	M	1.65	.03
9/30/83	25.6	15.2	8.89	3.81	2.09	100	61	1407	1477	22.6	16.0	20.1	16.4	3.30	3.10	170	20	M	1.87	.36
MONTHLY	MEAN 21.1	MEAN 10.6	TOTAL 86.85	TOTAL 114.81	MEAN 3.43	MN. 99	MN. 59	TOTL 191	TOT 203	MEAN 24.0	MEAN 13.3	MEAN 21.3	MEAN 15.2	MEAN 2.66	MEAN 2.09	MN. 189	MN. 39	MN. M	MEAN 1.54	MEAN .38

B E C K E R

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 5 CM	MIN SOIL TEMP 5 CM	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	23.8	15.6	0	2.29	2.82	99	67	1417	1487	24.9	15.6	21.3	16.4	2.95	1.47	210	57	M	1.85	.37
10/ 2/83	20.7	13.3	8.89	8.13	1.09	100	92	1424	1494	20.3	15.9	19.1	16.8	1.98	.64	2	67	M	1.80	.06
10/ 3/83 *	12.8	10.0	0	1.78	M	M	M	1425	1495	M	M	M	M	M	M	M	M	M	M	M
10/ 4/83 *	14.4	7.2	0	1.78	M	M	M	1426	1497	M	M	M	M	M	M	M	M	M	M	M
10/ 5/83 *	16.1	7.8	0	3.30	M	M	M	1428	1500	M	M	18.3	M	M	M	M	M	M	M	M
10/ 6/83 *	14.4	2.2	1.02	2.79	M	M	M	1428	1502	M	M	17.2	9.4	M	M	M	M	M	M	M
10/ 7/83 *	12.2	7.8	0	2.29	M	M	M	1428	1504	M	M	16.1	8.9	M	M	M	M	M	M	M
10/ 8/83 *	12.8	.6	0	2.54	M	M	M	1428	1505	M	M	16.1	7.2	M	M	M	M	M	M	M
10/ 9/83 *	12.8	-1.1	3.05	2.03	M	M	M	1428	1506	M	M	16.1	7.2	M	M	M	M	M	M	M
10/10/83 *	12.8	-1.1	39.62	0	M	M	M	1428	1508	M	M	11.7	7.2	M	M	M	M	M	M	M
10/11/83 *	10.6	3.9	0	2.29	M	M	M	1428	1508	M	M	12.8	10.0	M	M	M	M	M	M	M
10/12/83 *	1.7	-2.8	2.54	.25	M	M	M	1428	1508	M	M	5.6	5.6	M	M	M	M	M	M	M
10/13/83 *	5.0	-1.7	.51	.25	M	M	M	1428	1508	M	M	7.2	4.4	M	M	M	M	M	M	M
10/14/83 *	11.7	.6	4.06	1.27	M	M	M	1428	1509	M	M	11.7	5.6	M	M	M	M	M	M	M
10/15/83 *	11.1	5.6	0	1.78	M	M	M	1428	1509	M	M	11.1	5.6	M	M	M	M	M	M	M
10/16/83 *	11.7	6.1	0	1.52	M	M	M	1428	1510	M	M	11.7	5.6	M	M	M	M	M	M	M
10/17/83 *	12.8	.6	0	.51	M	M	M	1428	1512	M	M	11.7	5.6	M	M	M	M	M	M	M
10/18/83 *	7.8	7.2	12.45	.76	M	M	M	1428	1512	M	M	8.9	3.9	M	M	M	M	M	M	M
10/19/83 *	7.8	6.1	11.18	1.52	M	M	M	1428	1512	M	M	8.9	8.9	M	M	M	M	M	M	M
10/20/83 *	9.4	5.0	0	2.03	M	M	M	1428	1512	M	M	10.6	7.8	M	M	M	M	M	M	M
10/21/83 *	10.6	5.6	0	1.02	M	M	M	1428	1512	M	M	10.6	7.8	M	M	M	M	M	M	M
10/22/83 *	13.9	2.8	0	.76	M	M	M	1428	1514	M	M	16.7	2.8	M	M	M	M	M	M	M
10/23/83 *	6.1	1.7	0	.76	M	M	M	1428	1514	M	M	8.9	7.8	M	M	M	M	M	M	M
10/24/83 *	8.3	3.3	1.02	2.54	M	M	M	1428	1514	M	M	8.9	7.8	M	M	M	M	M	M	M
10/25/83 *	12.2	-1.1	0	1.78	M	M	M	1428	1515	M	M	9.4	4.4	M	M	M	M	M	M	M
10/26/83 *	14.4	2.2	0	3.30	M	M	M	1428	1517	M	M	11.1	5.0	M	M	M	M	M	M	M
10/27/83 *	22.2	4.4	0	2.29	M	M	M	1431	1523	M	M	13.9	5.6	M	M	M	M	M	M	M
10/28/83 *	6.7	8.9	0	2.54	M	M	M	1431	1523	M	M	11.7	9.4	M	M	M	M	M	M	M
10/29/83 *	11.1	-3.9	0	2.79	M	M	M	1431	1524	M	M	11.7	7.2	M	M	M	M	M	M	M
10/30/83 *	12.8	-2.2	0	M	M	M	M	1431	1525	M	M	12.2	4.4	M	M	M	M	M	M	M
10/31/83 *	10.0	5.6	.25	M	M	M	M	1431	1525	M	M	M	5.6	M	M	M	M	M	M	M
MONTHLY	MEAN 12.0	MEAN 3.9	TOTAL 84.59	TOTAL M	MEAN M	MN. M	MN. M	TOTL 24	TOT 48	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN. M	MEAN M	MEAN M

## C R O O K S T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 7.22	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83 *	1.1	.6	0	M	.95	M	M	0	0	.6	.6	M	M	M	M	M	M	M	M	M
4/ 2/83 *	2.2	-.6	0	M	1.42	M	M	0	0	.6	.6	M	M	M	M	M	M	M	M	M
4/ 3/83 *	6.1	-1.1	0	M	1.87	M	M	0	0	1.7	.6	M	M	M	M	M	M	M	M	M
4/ 4/83 *	6.7	0	0	M	2.24	M	M	0	0	3.9	.6	M	M	M	M	M	M	M	M	M
4/ 5/83 *	7.8	-1.7	0	M	4.19	M	M	0	0	6.1	.6	M	M	M	M	M	M	M	M	M
4/ 6/83 *	7.2	-.6	0	M	3.89	M	M	0	0	6.1	.6	M	M	M	M	M	M	M	M	M
4/ 7/83 *	8.9	-3.3	0	M	3.28	M	M	0	0	7.2	1.1	M	M	M	M	M	M	M	M	M
4/ 8/83 *	10.0	-2.2	0	M	4.73	M	M	0	0	7.2	1.1	M	M	M	M	M	M	M	M	M
4/ 9/83 *	10.6	-1.7	0	M	2.85	M	M	0	0	6.7	1.1	M	M	M	M	M	M	M	M	M
4/10/83 *	12.2	-.6	0	M	3.30	M	M	1	0	7.8	1.7	M	M	M	M	M	M	M	M	M
4/11/83 *	12.8	-3.3	0	M	5.30	M	M	2	0	8.3	1.7	M	M	M	M	M	M	M	M	M
4/12/83 *	8.9	2.2	0	M	3.00	M	M	3	0	5.6	1.1	M	M	M	M	M	M	M	M	M
4/13/83 *	1.1	-2.8	0	M	2.58	M	M	3	0	2.2	2.2	M	M	M	M	M	M	M	M	M
4/14/83 *	1.1	-6.7	0	M	3.00	M	M	3	0	2.2	1.1	M	M	M	M	M	M	M	M	M
4/15/83 *	3.3	-6.7	0	M	3.42	M	M	3	0	2.2	1.1	M	M	M	M	M	M	M	M	M
4/16/83 *	2.8	-5.0	0	M	4.38	M	M	3	0	4.4	.6	M	M	M	M	M	M	M	M	M
4/17/83 *	6.7	-5.0	0	M	5.27	M	M	3	0	5.0	1.1	M	M	M	M	M	M	M	M	M
4/18/83 *	5.0	0	0	M	3.58	M	M	3	0	2.2	1.1	M	M	M	M	M	M	M	M	M
4/19/83 *	11.1	-1.1	0	M	2.12	M	M	3	0	6.1	1.7	M	M	M	M	M	M	M	M	M
4/20/83 *	14.4	2.8	0	M	3.65	M	M	8	1	9.4	2.2	M	M	M	M	M	M	M	M	M
4/21/83 *	16.7	-1.1	0	M	4.50	M	M	11	2	12.8	2.8	M	M	M	M	M	M	M	M	M
4/22/83 *	16.1	.6	0	M	5.26	M	M	15	3	7.8	3.3	M	M	M	M	M	M	M	M	M
4/23/83 *	17.2	-1.1	0	M	4.05	M	M	18	4	10.0	4.4	M	M	M	M	M	M	M	M	M
4/24/83 *	21.7	-1.1	0	M	5.37	M	M	24	7	12.2	5.6	M	M	M	M	M	M	M	M	M
4/25/83 *	22.2	6.7	1.27	M	6.25	M	M	34	14	10.0	5.6	M	M	M	M	M	M	M	M	M
4/26/83 *	15.6	8.9	0	M	4.69	M	M	42	19	10.0	7.8	M	M	M	M	M	M	M	M	M
4/27/83 *	12.8	2.8	3.56	M	4.77	M	M	45	20	7.2	6.7	M	M	M	M	M	M	M	M	M
4/28/83 *	7.2	.6	.51	M	2.17	M	M	45	20	6.1	6.1	M	M	M	M	M	M	M	M	M
4/29/83 *	8.3	0	0	M	2.04	M	M	45	20	5.0	2.2	M	M	M	M	M	M	M	M	M
4/30/83 *	14.4	-3.9	0	M	6.86	M	M	46	20	10.0	3.3	M	M	M	M	M	M	M	M	M
MONTHLY	MEAN 9.7	MEAN -.8	TOTAL 5.34	TOTAL M	MEAN 3.57	MN. M	MN. M	TOTL 46	TOT 20	MEAN 6.2	MEAN 2.3	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83 *	17.2	-.6	0	8.89	7.69	M	M	50	21	10.6	3.3	M	M	M	M	M	M	M	M	M
5/ 2/83 *	17.2	2.2	0	7.11	4.94	M	M	55	23	11.1	4.4	M	M	M	M	M	M	M	M	M
5/ 3/83 *	18.3	0	0	7.62	2.47	M	M	60	25	10.6	6.1	M	M	M	M	M	M	M	M	M
5/ 4/83 *	9.4	-4.4	0	4.32	5.46	M	M	60	25	8.3	6.1	M	M	M	M	M	M	M	M	M
5/ 5/83 *	18.9	-1.7	0	7.11	4.63	M	M	64	27	12.8	5.0	M	M	M	M	M	M	M	M	M
5/ 6/83 *	18.9	5.0	0	10.41	6.61	M	M	72	31	12.2	5.0	M	M	M	M	M	M	M	M	M
5/ 7/83 *	14.4	0	0	6.60	6.48	M	M	75	31	11.7	7.8	M	M	M	M	M	M	M	M	M
5/ 8/83 *	20.0	-2.8	0	12.45	6.86	M	M	79	33	12.2	6.7	M	M	M	M	M	M	M	M	M
5/ 9/83 *	20.0	8.3	3.30	3.56	5.83	M	M	88	40	11.1	5.6	M	M	M	M	M	M	M	M	M
5/10/83 *	15.0	8.9	5.84	1.27	3.30	M	M	96	44	10.0	9.4	M	M	M	M	M	M	M	M	M
5/11/83 *	8.9	4.4	12.45	3.56	1.48	M	M	98	44	8.9	8.9	M	M	M	M	M	M	M	M	M
5/12/83 *	17.8	3.3	8.89	3.30	1.52	M	M	104	48	9.4	7.2	M	M	M	M	M	M	M	M	M
5/13/83 *	7.2	1.1	0	3.30	2.23	M	M	104	48	5.6	6.1	M	M	M	M	M	M	M	M	M
5/14/83 *	6.7	-2.8	.76	3.30	2.46	M	M	104	48	8.3	3.9	M	M	M	M	M	M	M	M	M
5/15/83 *	8.3	-1.7	0	3.81	2.93	M	M	104	48	8.9	3.3	M	M	M	M	M	M	M	M	M
5/16/83 *	12.2	-3.9	0	4.83	3.85	M	M	104	48	12.8	3.9	M	M	M	M	M	M	M	M	M
5/17/83 *	21.1	-.6	0	6.86	3.82	M	M	110	51	12.2	3.9	M	M	M	M	M	M	M	M	M
5/18/83 *	21.1	7.2	0	8.89	4.76	M	M	120	58	13.9	6.7	M	M	M	M	M	M	M	M	M
5/19/83 *	18.9	6.1	13.46	6.35	2.95	M	M	128	63	11.7	10.0	M	M	M	M	M	M	M	M	M
5/20/83 *	16.1	2.8	0	5.59	2.58	M	M	133	65	14.4	8.9	M	M	M	M	M	M	M	M	M
5/21/83 *	23.3	4.4	8.89	7.62	3.81	M	M	142	72	12.8	7.8	M	M	M	M	M	M	M	M	M
5/22/83 *	19.4	5.6	0	7.37	2.74	M	M	150	77	13.9	10.0	M	M	M	M	M	M	M	M	M
5/23/83 *	24.4	4.4	7.87	6.35	3.48	M	M	160	84	15.6	9.4	M	M	M	M	M	M	M	M	M
5/24/83 *	14.4	5.0	0	7.37	4.82	M	M	166	87	13.3	8.9	M	M	M	M	M	M	M	M	M
5/25/83 *	17.2	-.6	0	6.35	5.80	M	M	170	88	17.2	8.3	M	M	M	M	M	M	M	M	M
5/26/83 *	22.2	6.1	0	10.67	4.30	M	M	179	95	14.4	7.8	M	M	M	M	M	M	M	M	M
5/27/83	19.6	14.9	3.05	7.37	M	89	69	192	105	M	M	M	M	M	M	M	M	M	M	M
5/28/83	22.9	7.8	0	9.65	M	71	18	203	113	M	M	M	M	M	M	M	M	M	M	M
5/29/83	16.5	5.9	2.03	4.83	M	87	61	210	117	M	M	M	M	M	M	M	M	M	M	M
5/30/83	17.7	6.4	0	5.84	M	93	52	217	122	M	M	M	M	M	M	M	M	M	M	M
5/31/83	20.5	10.9	0	5.59	1.17	68	31	229	130	M	M	M	M	2.02	1.27	11	49	66	.79	1.10
MONTHLY	MEAN 17.0	MEAN 3.3	TOTAL 66.54	TOTAL 198.14	MEAN M	MN. M	MN. M	TOTL 182	TOT 111	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M



## C R O O K S T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 7.22	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	23.0	9.9	0	6.10	3.98	77	28	241	140	M	M	M	M	2.64	2.00	182	38	M	.92	.94
6/ 2/83	24.5	11.9	0	7.62	5.89	72	37	254	151	M	M	M	M	3.97	3.70	197	21	M	1.10	1.02
6/ 3/83	24.2	10.4	0	7.62	6.69	91	24	267	161	M	M	M	M	4.60	4.07	311	28	M	1.00	1.00
6/ 4/83	15.0	9.4	0	2.54	2.14	88	57	275	166	M	M	M	M	5.64	5.12	334	25	M	1.09	.33
6/ 5/83	19.6	3.1	0	7.11	7.21	94	23	282	170	M	M	M	M	4.11	3.54	336	30	M	.68	.84
6/ 6/83	24.5	7.6	0	8.38	7.33	65	18	294	179	M	M	M	M	5.51	4.95	321	26	M	.61	1.39
6/ 7/83	27.7	3.8	.25	9.40	7.34	64	19	305	187	M	M	M	M	2.36	1.41	191	51	M	.68	1.48
6/ 8/83	24.1	8.7	0	7.62	5.82	85	34	317	196	18.6	15.6	16.1	14.7	5.01	4.34	331	30	M	1.16	.91
6/ 9/83	27.4	4.5	0	11.18	7.16	88	29	328	205	20.3	13.8	16.9	14.0	3.19	2.79	145	29	M	1.02	1.22
6/10/83	31.2	16.8	0	11.43	5.86	74	46	348	222	20.3	16.5	17.4	15.6	6.89	5.85	136	31	M	1.60	1.23
6/11/83	30.5	18.6	19.05	0	5.95	83	48	368	239	21.4	17.9	18.3	16.6	6.71	3.41	133	57	M	1.94	1.01
6/12/83	23.6	17.4	59.44	0	1.22	89	81	384	253	19.2	17.3	18.4	16.3	6.06	5.29	93	29	M	2.01	.31
6/13/83	21.0	15.0	.51	3.05	2.40	91	81	398	263	18.3	16.9	17.8	16.6	3.96	1.97	269	57	M	1.69	.27
6/14/83	21.9	13.7	1.02	4.06	3.41	91	62	411	274	17.5	15.6	16.6	15.4	2.77	.94	255	66	M	1.58	.37
6/15/83	14.8	9.3	5.08	2.29	2.06	96	79	419	279	16.6	13.1	16.2	13.8	5.62	5.55	273	9	M	1.15	.18
6/16/83	18.6	7.9	0	5.84	7.66	95	57	427	285	15.6	11.9	14.5	12.7	3.78	1.04	275	69	M	1.17	.39
6/17/83	22.5	6.4	0	7.11	7.83	97	48	437	292	17.8	12.7	16.0	13.2	1.99	1.64	99	34	M	1.30	.57
6/18/83	24.5	9.9	0	7.87	6.82	94	53	450	302	17.3	14.5	16.1	14.6	4.90	4.82	86	10	M	1.55	.59
6/19/83	26.1	15.4	1.78	5.84	4.87	92	67	467	316	17.8	15.4	16.4	15.1	5.80	4.91	84	32	M	1.95	.50
6/20/83	27.0	18.4	0	5.33	4.81	93	69	485	331	19.1	16.8	17.5	16.0	5.15	3.77	81	42	M	2.29	.53
6/21/83	28.8	19.3	24.38	10.67	4.86	93	70	504	348	20.5	17.9	18.6	16.9	4.26	3.06	83	43	M	2.45	.46
6/22/83	24.7	16.2	0	7.62	6.46	94	60	520	361	20.4	18.2	18.7	17.7	4.17	3.33	274	36	M	1.94	.51
6/23/83	27.9	14.2	0	7.87	7.48	92	47	537	375	23.0	17.0	20.2	17.1	2.43	.93	71	64	M	1.91	.84
6/24/83	30.5	19.5	0	8.38	6.43	91	68	558	393	23.3	19.5	20.9	18.8	4.83	4.52	73	20	M	2.50	.66
6/25/83	33.2	21.6	0	8.38	7.11	91	51	580	413	25.3	20.6	22.3	19.7	5.29	2.64	302	57	M	2.54	1.05
6/26/83	29.5	15.9	0	10.16	7.33	91	27	599	428	26.1	21.0	22.9	20.5	3.10	1.68	213	55	M	1.66	1.20
6/27/83	24.6	13.8	0	7.37	7.20	93	54	614	440	23.7	20.4	22.6	20.3	3.83	3.07	95	36	M	1.69	.56
6/28/83	25.3	7.3	0	7.62	7.54	93	55	625	449	23.2	18.5	21.4	19.1	3.03	2.91	96	16	M	1.47	.63
6/29/83	16.5	13.3	20.07	2.29	.87	94	85	636	457	21.8	17.4	21.1	17.8	2.82	2.62	113	22	M	1.56	.15
6/30/83	21.9	15.0	.25	3.05	3.14	93	78	650	468	18.5	17.0	17.9	17.2	3.31	2.94	251	27	M	1.85	.26
MONTHLY	MEAN 24.5	MEAN 12.5	TOTAL 131.83	TOTAL 185.42	MEAN 5.50	MN. 88	MN. 52	TOTL 421	TOT 338	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. 190	MN. 36	MN. 41	MEAN 1.53	MEAN .71
7/ 1/83	24.5	12.6	0	7.62	6.40	94	67	664	480	20.8	16.2	18.8	16.7	2.47	1.34	324	55	43	1.80	.37
7/ 2/83	23.1	16.8	15.24	0	1.36	93	83	679	492	19.6	18.0	18.7	17.7	3.50	2.72	128	38	38	2.03	.24
7/ 3/83	24.4	14.3	8.89	0	3.72	93	70	694	505	19.6	17.1	18.2	17.0	3.44	2.45	268	44	30	1.85	.34
7/ 4/83	16.9	8.2	1.27	0	3.30	93	84	703	510	18.0	15.6	18.0	16.2	5.66	4.69	324	33	23	1.41	.19
7/ 5/83	20.4	4.8	0	6.10	7.59	95	52	711	515	18.8	13.3	16.9	14.6	2.16	1.26	213	52	35	1.20	.45
7/ 6/83	30.2	13.8	0	6.35	7.10	90	63	728	530	21.0	15.7	18.4	15.8	4.81	4.61	175	17	0	2.20	.72
7/ 7/83	31.6	20.4	0	8.13	5.69	90	62	750	549	22.7	18.5	19.7	17.8	4.59	4.29	184	21	6	2.46	.84
7/ 8/83	32.3	19.4	0	7.62	6.77	91	67	771	567	25.7	20.2	21.7	19.2	2.65	2.25	70	31	29	2.82	.75
7/ 9/83	33.2	22.4	0	10.92	6.75	90	62	795	588	26.3	22.2	22.7	20.9	4.51	4.31	140	17	5	2.85	.87
7/10/83	34.2	22.2	0	17.78	7.08	86	51	818	609	26.8	22.7	23.3	21.6	5.17	4.15	180	36	0	2.63	1.34
7/11/83	25.1	15.5	0	7.62	5.08	82	53	834	622	25.3	21.7	23.2	21.5	4.65	4.27	264	23	0	1.53	.88
7/12/83	32.8	13.7	0	11.43	7.24	89	34	853	638	25.7	19.6	22.3	20.1	3.88	3.67	199	19	0	1.77	1.49
7/13/83	37.0	19.8	0	9.91	6.89	73	37	877	659	27.1	21.6	23.3	21.1	4.50	4.19	192	21	0	2.30	1.67
7/14/83	34.8	22.7	0	9.65	6.75	81	57	901	681	28.3	23.3	24.3	22.3	3.54	3.32	169	20	0	2.76	1.24
7/15/83	31.8	22.3	.25	10.67	5.68	84	61	924	701	26.6	24.1	24.2	23.1	5.03	4.80	158	17	0	2.56	1.03
7/16/83	27.5	16.9	0	5.59	6.02	90	47	942	716	27.1	22.8	23.7	22.3	2.38	1.59	224	47	11	1.99	.80
7/17/83	27.5	15.0	0	4.06	3.64	91	64	958	730	24.9	21.9	23.5	21.6	1.62	1.29	140	37	36	2.07	.49
7/18/83	31.0	17.8	0	3.56	5.05	91	56	978	747	26.0	21.3	22.5	21.0	2.08	1.19	176	53	27	2.33	.73
7/19/83	30.4	17.5	0	6.10	4.70	91	65	998	764	25.5	22.1	22.4	21.5	1.89	.46	145	70	39	2.46	.61
7/20/83	29.5	17.1	0	2.29	3.41	91	67	1017	780	24.6	21.6	22.4	21.1	2.73	1.94	93	44	38	2.40	.55
7/21/83	33.1	20.0	0	5.33	5.61	89	62	1039	799	27.4	22.3	23.2	21.5	2.83	1.03	33	65	16	2.74	.91
7/22/83	32.6	16.4	0	11.43	7.02	90	23	1059	816	27.6	22.4	24.7	22.0	2.44	2.18	285	26	18	1.74	1.53
7/23/83	27.3	14.7	0	11.43	6.61	88	50	1076	830	26.2	22.3	24.5	22.3	3.54	3.06	336	30	21	1.76	.80
7/24/83	29.0	12.7	0	6.10	5.37	91	42	1092	844	26.2	21.5	24.1	21.9	1.53	.60	357	63	47	1.73	.91
7/25/83	29.7	13.0	0	6.35	6.32	91	39	1109	858	27.2	21.6	24.6	21.9	2.06	1.79	157	29	42	1.71	1.08
7/26/83	30.5	18.5	3.56	9.65	5.83	84	56	1129	875	26.5	22.6	24.4	22.6	4.65	4.38	169	20	28	2.19	1.05
7/27/83	28.6	21.0	.25	7.11	3.88															

## C R O O K S T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 7.22	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.8	13.1	0	6.86	6.74	91	37	1239	968	27.9	19.7	24.6	20.6	1.33	.93	151	44	23	1.83	1.08
8/ 2/83	30.0	19.1	1.52	5.33	4.29	90	68	1259	985	26.2	22.1	24.4	22.0	3.28	2.56	166	38	3	2.31	.58
8/ 3/83	33.3	16.5	0	7.11	6.50	90	53	1279	1003	29.3	22.1	25.8	22.1	1.43	.77	355	55	37	2.48	.94
8/ 4/83	35.1	19.9	0	9.91	6.31	88	48	1302	1023	30.6	24.2	26.9	23.8	2.69	2.42	179	25	25	2.64	1.24
8/ 5/83	34.5	19.2	0	7.62	5.40	87	47	1325	1043	30.2	25.3	27.2	24.8	2.99	.64	256	72	0	2.45	1.28
8/ 6/83	34.8	13.9	0	9.65	6.13	85	26	1345	1060	30.3	23.9	27.1	24.2	2.10	1.39	166	47	2	1.76	1.87
8/ 7/83	40.1	18.5	0	13.46	6.27	81	15	1369	1082	30.4	25.3	27.4	25.0	4.01	1.86	248	59	0	1.89	2.32
8/ 8/83	28.9	13.1	0	7.62	6.41	86	35	1386	1096	29.3	24.0	27.1	24.5	2.37	1.86	360	38	0	1.45	1.20
8/ 9/83	22.7	13.9	14.73	4.32	1.23	90	70	1400	1107	26.5	21.1	26.2	22.3	2.35	1.67	120	43	0	1.72	.34
8/10/83	26.4	14.7	0	3.81	4.46	91	56	1416	1120	22.7	19.9	22.3	20.9	3.47	2.48	11	43	8	1.85	.56
8/11/83	28.0	11.2	0	5.84	6.10	91	52	1431	1133	25.9	18.4	23.2	19.7	1.62	.85	137	56	26	1.76	.75
8/12/83	29.9	15.9	0	9.91	6.06	88	52	1450	1148	26.0	20.5	23.6	21.0	4.13	3.85	172	21	0	1.97	.98
8/13/83	29.7	13.2	0	8.13	6.16	86	31	1467	1163	27.1	21.9	24.4	22.0	3.00	2.30	308	39	9	1.68	1.22
8/14/83	30.9	10.2	0	7.62	6.30	90	31	1483	1176	27.7	20.9	24.6	21.6	1.76	1.48	163	32	29	1.49	1.36
8/15/83	34.0	16.1	0	8.38	5.88	80	22	1503	1194	28.6	22.7	25.4	22.7	2.52	.86	240	66	0	1.70	1.69
8/16/83	24.0	15.6	0	2.54	1.39	89	59	1519	1206	25.8	21.8	25.1	22.1	2.24	1.91	60	31	8	1.70	.60
8/17/83	33.1	11.3	0	7.62	5.34	91	41	1536	1221	25.9	19.6	23.6	20.6	2.25	1.86	199	34	30	1.87	1.27
8/18/83	30.7	20.1	9.91	6.10	3.03	89	48	1557	1240	25.0	22.7	23.6	22.4	3.02	2.35	168	38	12	2.32	.78
8/19/83	25.5	11.2	0	7.11	5.87	88	36	1571	1251	24.2	21.2	23.2	21.6	3.12	2.45	304	38	30	1.54	.86
8/20/83	24.0	10.6	3.56	4.06	3.19	88	52	1584	1261	22.2	18.7	22.1	19.7	3.03	2.47	104	35	24	1.52	.55
8/21/83	25.0	11.8	0	3.81	3.12	90	68	1598	1272	21.9	19.4	20.7	19.8	3.41	1.30	23	64	18	1.92	.41
8/22/83	26.9	9.5	0	4.06	4.36	90	38	1612	1283	23.1	17.5	21.0	18.6	1.21	.72	83	52	45	1.38	.86
8/23/83	27.8	15.6	22.10	8.64	4.50	86	50	1629	1297	24.1	19.3	21.7	19.6	3.00	2.60	125	30	2	1.80	.86
8/24/83	29.6	18.3	12.70	5.84	4.73	87	65	1648	1314	24.2	20.4	22.2	20.5	3.40	2.50	161	42	40	2.36	.59
8/25/83	31.2	17.4	40.64	0	4.65	93	64	1668	1331	24.9	12.9	23.1	20.5	3.02	.67	139	71	41	2.49	.61
8/26/83	31.0	17.5	0	3.81	5.36	88	64	1688	1348	25.9	20.6	23.4	21.0	1.65	.30	216	73	46	2.31	.67
8/27/83	31.1	18.3	0	7.87	4.89	88	51	1708	1366	26.7	21.2	23.8	21.6	2.09	1.47	164	44	63	2.28	.78
8/28/83	33.7	18.9	10.92	7.37	5.02	87	60	1730	1385	27.9	21.3	24.5	21.7	2.81	2.17	148	38	61	2.46	.82
8/29/83	26.6	18.1	0	3.30	3.01	89	64	1748	1400	25.7	22.3	24.4	22.4	2.76	1.34	112	58	45	2.19	.54
8/30/83	29.5	15.3	0	4.83	5.45	88	50	1766	1415	26.1	20.1	23.3	21.0	1.28	.82	85	49	56	2.01	.77
8/31/83	30.8	15.5	0	7.11	5.16	88	61	1785	1431	27.1	20.7	23.8	21.3	2.54	2.33	178	23	34	2.25	.77
MONTHLY	MEAN 30.0	MEAN 15.3	TOTAL 116.08	TOTAL 199.64	MEAN 4.95	MN. 88	MN. 49	TOTL 564	TOT 478	MEAN 26.4	MEAN 21.0	MEAN 24.2	MEAN 21.7	MEAN 2.58	MEAN 1.72	MN. 171	MN. 45	MN. 23	MEAN 1.98	MEAN .94
9/ 1/83	33.1	19.7	0	6.60	4.98	86	60	1807	1450	27.8	22.2	24.7	22.2	3.47	3.16	188	24	M	1.43	1.37
9/ 2/83	36.4	20.9	.25	7.11	4.75	87	37	1831	1472	28.3	23.2	25.2	22.9	3.75	2.84	82	40	M	2.34	1.42
9/ 3/83	29.5	14.5	0	8.38	5.09	82	27	1849	1486	26.6	21.9	24.9	22.6	2.98	2.62	253	28	M	1.43	1.37
9/ 4/83	26.1	11.2	0	3.05	2.28	88	54	1863	1498	23.6	20.2	23.7	21.2	2.12	1.82	189	30	M	1.53	.64
9/ 5/83	23.3	13.3	2.79	1.78	2.30	88	70	1877	1509	21.3	18.8	21.6	20.1	3.11	2.53	207	35	M	1.62	.35
9/ 6/83	16.6	9.9	0	3.30	1.99	88	66	1885	1515	18.8	16.1	20.2	18.0	3.63	3.11	268	31	M	1.28	.33
9/ 7/83	24.6	7.2	0	6.60	5.10	89	55	1897	1523	21.7	15.2	19.7	17.0	3.59	3.00	168	33	M	1.50	.62
9/ 8/83	28.4	15.0	0	3.56	2.52	88	63	1914	1538	21.9	18.3	20.5	18.8	3.78	.99	54	70	M	1.87	.62
9/ 9/83	26.2	13.1	5.59	2.54	3.65	88	64	1929	1550	22.8	18.4	20.9	19.0	2.69	1.27	76	59	M	1.76	.52
9/10/83	19.8	9.9	0	5.84	4.29	87	55	1940	1558	21.0	17.1	20.7	18.7	4.71	4.34	289	23	M	1.22	.48
9/11/83	10.9	4.6	4.32	.76	.94	90	79	1943	1559	17.1	13.8	18.7	15.6	1.72	1.14	236	47	M	.99	.15
9/12/83	14.9	6.3	0	2.03	2.43	89	62	1949	1562	15.0	12.2	15.7	14.3	2.09	1.68	307	36	M	1.03	.28
9/13/83	18.6	2.0	0	1.78	4.29	90	48	1955	1565	17.1	11.3	16.1	13.7	1.73	1.04	328	51	M	.95	.33
9/14/83	17.8	1.0	32.26	0	2.46	89	52	1960	1567	15.1	11.5	15.7	13.6	2.90	2.55	123	28	M	1.01	.28
9/15/83	12.6	10.3	14.22	3.81	.52	88	86	1967	1571	13.6	12.3	14.7	13.4	4.81	4.46	94	22	M	1.18	.17
9/16/83	15.3	8.1	0	1.27	2.28	88	77	1974	1576	14.3	11.6	14.1	12.9	2.61	1.98	111	40	M	1.15	.22
9/17/83	15.4	10.3	0	1.27	1.22	88	62	1983	1581	13.5	11.9	14.0	13.1	4.31	3.40	172	37	M	1.24	.24
9/18/83	15.0	6.9	0	3.81	4.48	81	54	1989	1585	13.7	10.7	13.7	12.4	4.49	4.21	260	20	M	.88	.40
9/19/83	9.1	6.2	0	3.05	1.60	83	71	1992	1586	11.6	10.2	13.1	11.8	2.84	2.59	292	24	M	.80	.23
9/20/83	8.6	4.3	0	1.78	1.47	86	69	1994	1586	10.4	9.1	12.0	10.9	4.54	4.32	300	18	M	.75	.21
9/21/83	9.6	2.2	0	1.02	1.69	88	59	1996	1586	9.6	7.9	10.9	9.9	4.06	3.83	314	20	M	.70	.18
9/22/83	10.1	-.9	0	1.78	2.55	90	56	1996	1586	9.8	6.5	10.3	8.9	2.64	2.19	323	33	M	.63	.18
9/23/83	17.1	-1.2	0	4.83	4.35	89	35	2000	1586	12.0	5.7	11.0	8.2	3.77	3.53	178	20	M	.64	.54
9/24/83	24.6	7.8	0	3.05	4.07	85	38	2011	1595	15.0	9.1	13.0	10.1	3.38	2.79	188	34	M	.98	.68
9/25/83	27.5	4.8	0	3.56	3.63	88	30	2023	1604	16.3	10.7	14.3	11.6	2.31	1.15	223	57	M	1.08	.88
9/26/83	26.0	4.4	0	2.79	4.07	88	32	2034	1612	18.1	11.6	15.4	12.5	1.50	.84	160	54	M	1.07	.82
9/27/83	30.1	12.3	2.29	7.62	3.60	80	31	2050	1626	18.6	13.5	16.3	13.8	4.68	4.42	160	19	M	1.36	1.34
9/28/83	24.7	6.5	0	3.56	2.29	86	43	2062	1635	17.5	14.8	16.4	15.7	4.96	1.43	313	68	M	1.39	.52
9/29/83	15.3	2.8	0	2.79	3.54	88	58	2066	1636	15.4	11.6	15.7	13.3	3.57	3.22	24	25	M	.87	.32
9/30/83	14.4	7.5	14.48	3.05	.59	88	79	2073	1640	13.7	12.3	14.3	13.2	3.54	2.52	30	43	M	1.08	.18
MONTHLY	MEAN 20.1	MEAN 8.0	TOTAL 76.20	TOTAL 102.37	MEAN 2.97	MN. 87	MN. 56	TOTL 288	TOT 209	MEAN 17.4	MEAN 13.7	MEAN 16.9	MEAN 15.0	MEAN 3.34	MEAN 2.63	MN. 197	MN. 36	M	MEAN 1.19	MEAN .53

## C R O O K S T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 7.22	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	10.0	6.3	0	.76	1.46	87	83	2076	1641	12.6	11.0	13.3	12.3	4.00	3.78	337	19	M	.93	.16
10/ 2/83	9.9	7.2	.25	0	.77	86	84	2081	1642	11.0	10.2	12.3	11.5	3.02	2.24	30	41	M	.95	.17
10/ 3/83	10.3	6.6	0	1.02	1.12	86	81	2085	1644	11.1	10.1	11.6	11.2	3.22	3.08	331	17	M	.95	.17
10/ 4/83	12.6	1.4	2.79	1.52	2.18	91	73	2087	1644	10.9	8.3	11.5	10.3	3.10	2.84	184	23	M	.90	.18
10/ 5/83	12.7	2.6	0	1.02	1.81	86	70	2090	1644	10.3	8.2	11.1	10.1	4.06	3.48	296	31	M	.84	.20
10/ 6/83	14.7	1.1	5.33	1.78	3.41	86	51	2094	1645	11.3	6.1	10.8	8.5	2.19	1.23	243	54	M	.80	.30
10/ 7/83	11.7	.4	0	1.02	1.61	87	67	2095	1645	10.3	7.9	10.8	9.9	4.27	3.48	35	35	M	.82	.18
10/ 8/83	14.1	-1.7	0	4.32	3.49	87	53	2097	1645	10.2	5.7	9.9	8.0	2.88	2.67	177	22	M	.71	.29
10/ 9/83	13.3	4.6	.25	3.81	1.53	79	65	2102	1646	9.0	6.7	9.5	8.3	7.56	7.45	161	10	M	.85	.35
10/10/83	13.7	10.1	7.37	2.03	.69	86	66	2109	1651	10.6	9.0	10.4	9.3	6.00	5.58	181	21	M	.75	.21
10/11/83	10.7	-2.5	0	2.03	3.16	83	48	2109	1651	11.1	6.3	10.4	8.7	4.51	4.30	277	18	M	.59	.25
10/12/83	4.0	-3.7	0	.76	.80	87	80	2109	1651	6.3	4.6	8.7	7.2	4.07	3.66	341	26	M	.57	.11
10/13/83	3.4	-1.1	0	.51	1.47	87	80	2109	1651	5.5	4.0	7.0	6.1	3.79	3.41	332	26	M	.56	.11
10/14/83	10.9	-3.4	0	1.78	3.20	87	50	2109	1651	7.4	3.0	7.1	5.3	1.94	1.29	347	47	M	.57	.20
10/15/83	5.2	1.4	17.27	1.27	.87	87	76	2109	1651	5.8	5.0	6.9	7.3	4.13	3.45	75	33	M	.69	.14
10/16/83	10.0	.3	0	1.02	1.85	89	71	2110	1651	7.4	5.0	7.4	6.2	4.06	3.48	304	31	M	.68	.17
10/17/83	8.3	-.6	0	1.52	2.67	85	62	2110	1651	7.5	3.6	7.1	5.6	1.92	.84	351	61	M	.61	.19
10/18/83	5.3	1.7	0	1.78	.62	82	66	2110	1651	6.1	4.6	7.1	6.0	5.27	5.09	71	15	M	.57	.22
10/19/83	10.0	4.6	3.30	.51	.71	85	81	2113	1651	6.8	4.8	7.1	6.0	4.26	4.11	116	15	M	.85	.17
10/20/83	11.5	7.1	0	1.52	1.16	83	77	2118	1653	8.1	6.6	8.0	7.1	4.36	4.14	155	18	M	.94	.22
10/21/83	9.7	1.8	0	1.02	.91	85	78	2119	1653	7.7	5.9	8.0	7.2	2.58	2.36	178	24	M	.83	.19
10/22/83	11.8	5.3	0	.76	1.02	85	77	2123	1655	8.7	7.1	8.7	7.8	2.16	1.92	172	27	M	.92	.21
10/23/83	13.4	4.7	3.05	.51	1.88	84	74	2128	1656	8.8	6.3	8.6	7.5	4.96	4.79	175	15	M	.92	.23
10/24/83	11.7	2.8	0	1.02	1.66	85	59	2130	1656	9.1	6.4	8.9	8.3	4.56	3.19	279	44	M	.81	.25
10/25/83	15.4	-.8	0	1.78	2.24	84	45	2133	1656	7.4	4.4	8.3	6.5	4.10	2.96	233	43	M	.62	.36
10/26/83	15.3	.8	0	2.29	2.50	82	49	2137	1657	8.5	4.5	7.8	6.2	3.46	2.34	199	46	M	.72	.39
10/27/83	23.5	5.0	0	2.29	2.55	81	34	2147	1664	10.7	6.1	9.1	7.1	3.73	2.67	213	43	M	.92	.62
10/28/83	9.3	-2.5	0	2.03	2.58	85	54	2147	1664	9.2	6.1	9.0	7.6	4.97	4.60	327	22	M	.63	.24
10/29/83	10.6	-3.9	0	2.03	2.48	56	53	2147	1664	6.9	3.8	7.6	5.8	4.17	3.98	176	17	M	.57	.27
10/30/83	12.7	2.3	0	2.03	2.33	82	65	2150	1665	7.6	4.5	7.2	5.8	5.64	5.50	179	13	M	.77	.28
10/31/83	10.9	5.2	0	M	.54	84	81	2153	1665	7.6	6.0	7.6	6.7	5.41	5.30	176	12	M	.93	.20
MONTHLY	MEAN 11.2	MEAN 2.0	TOTAL 39.61	TOTAL M	MEAN 1.78	MN. 84	MN. 66	TOTL 80	TOT 25	MEAN 8.8	MEAN 6.2	MEAN 9.0	MEAN 7.8	MEAN 4.01	MEAN 3.52	MN. 214	MN. 28	MN M	MEAN .77	MEAN .23

G R A N D   R A P I D S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 10	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83	* 4.4	0	3.30		M .36	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 2/83	* 7.8	0	0		M 3.73	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 3/83	* 6.7	0	0		M 3.87	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 4/83	* 7.8	- .6	0		M 4.17	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 5/83	* 10.0	-2.8	0		M 6.27	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 6/83	* 2.2	-1.1	5.59		M 2.01	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 7/83	* 7.2	-3.3	0		M 4.14	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 8/83	* 12.2	-6.1	0		M 6.17	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 9/83	* 6.7	-2.8	0		M 2.94	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/10/83	* 12.2	0	0		M 4.34	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/11/83	* 13.9	-3.9	0		M 6.42	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/12/83	* 3.9	-2.2	3.81		M 2.54	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/13/83	* 1.7	-1.1	4.32		M 2.19	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/14/83	* -1.7	-5.0	0		M 2.06	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/15/83	* 5.0	-6.7	0		M 7.17	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/16/83	* 3.9	-6.1	0		M 5.87	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/17/83	* 5.6	-7.2	.51		M 6.76	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/18/83	* 7.8	-3.9	0		M 4.63	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/19/83	* 11.1	-6.1	0		M 7.06	M	M	2	0	M	M	M	M	M	M	M	M	M	M	M
4/20/83	* 15.0	-2.8	0		M 6.55	M	M	4	0	M	M	M	M	M	M	M	M	M	M	M
4/21/83	* 17.2	-1.1	0		M 4.76	M	M	8	0	M	M	M	M	M	M	M	M	M	M	M
4/22/83	* 16.7	1.1	0		M 6.23	M	M	12	0	M	M	M	M	M	M	M	M	M	M	M
4/23/83	* 15.6	.6	0		M 7.32	M	M	16	0	M	M	M	M	M	M	M	M	M	M	M
4/24/83	* 21.7	-4.4	0		M 6.76	M	M	20	0	M	M	M	M	M	M	M	M	M	M	M
4/25/83	* 21.7	2.8	0		M 7.22	M	M	28	2	M	M	M	M	M	M	M	M	M	M	M
4/26/83	* 17.8	7.2	5.08		M 2.40	M	M	36	5	M	M	M	M	M	M	M	M	M	M	M
4/27/83	* 12.2	3.9	.25		M 7.15	M	M	39	5	M	M	M	M	M	M	M	M	M	M	M
4/28/83	* 9.4	- .6	1.78		M 1.61	M	M	39	5	M	M	M	M	M	M	M	M	M	M	M
4/29/83	* 8.9	1.1	0		M 4.57	M	M	40	5	M	M	M	M	M	M	M	M	M	M	M
4/30/83	* 14.4	-2.2	0		M 5.93	M	M	41	5	M	M	M	M	M	M	M	M	M	M	M
MONTHLY	MEAN 10.0	MEAN -1.8	TOTAL 24.64	TOTAL M	MEAN 4.77	MN. M	MN. M	TOTL 41	TOT 5	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83	* 15.0	2.2	0		M 7.36	M	M	46	5	M	M	M	M	M	M	M	M	M	M	M
5/ 2/83	* 18.3	1.1	0		M 7.33	M	M	51	5	M	M	M	M	M	M	M	M	M	M	M
5/ 3/83	* 20.0	-1.1	0		M 7.13	M	M	56	5	M	M	M	M	M	M	M	M	M	M	M
5/ 4/83	* 12.2	.6	0		M 7.09	M	M	58	5	M	M	M	M	M	M	M	M	M	M	M
5/ 5/83	* 18.3	-2.8	0		M 7.32	M	M	61	5	M	M	M	M	M	M	M	M	M	M	M
5/ 6/83	* 18.3	2.2	0		M 5.66	M	M	67	5	M	M	M	M	M	M	M	M	M	M	M
5/ 7/83	* 15.0	2.8	0		M 8.50	M	M	71	5	M	M	M	M	M	M	M	M	M	M	M
5/ 8/83	* 16.7	-3.3	0		M 7.82	M	M	74	5	M	M	M	M	M	M	M	M	M	M	M
5/ 9/83	* 19.4	- .6	.51		M 7.79	M	M	79	5	M	M	M	M	M	M	M	M	M	M	M
5/10/83	* 23.9	2.8	0		M 5.67	M	M	88	8	M	M	M	M	M	M	M	M	M	M	M
5/11/83	* 26.1	8.3	0		M 6.96	M	M	100	16	M	M	M	M	M	M	M	M	M	M	M
5/12/83	* 16.7	9.4	19.30		M 2.00	M	M	109	19	M	M	M	M	M	M	M	M	M	M	M
5/13/83	* 16.7	1.7	0		M 6.43	M	M	114	19	M	M	M	M	M	M	M	M	M	M	M
5/14/83	* 16.7	0	.25		M 7.07	M	M	118	19	M	M	M	M	M	M	M	M	M	M	M
5/15/83	* 8.9	-1.1	0		M 5.29	M	M	118	19	M	M	M	M	M	M	M	M	M	M	M
5/16/83	* 12.2	-3.3	0		M 8.10	M	M	118	19	M	M	M	M	M	M	M	M	M	M	M
5/17/83	* 20.6	-3.3	0		M 8.28	M	M	122	19	M	M	M	M	M	M	M	M	M	M	M
5/18/83	* 21.1	2.8	2.29		M 6.35	M	M	129	21	M	M	M	M	M	M	M	M	M	M	M
5/19/83	* 11.7	8.3	1.27		M 1.46	M	M	135	21	M	M	M	M	M	M	M	M	M	M	M
5/20/83	* 12.8	8.3	2.03		M 2.01	M	M	141	21	M	M	M	M	M	M	M	M	M	M	M
5/21/83	* 22.2	3.9	0		M 6.23	M	M	150	24	M	M	M	M	M	M	M	M	M	M	M
5/22/83	* 14.4	3.9	0		M 4.14	M	M	154	24	M	M	M	M	M	M	M	M	M	M	M
5/23/83	* 22.8	- .6	3.30		M 6.66	M	M	161	25	M	M	M	M	M	M	M	M	M	M	M
5/24/83	* 15.6	6.1	0		M 4.56	M	M	167	26	M	M	M	M	M	M	M	M	M	M	M
5/25/83	* 16.1	-1.1	0		M 8.82	M	M	170	26	M	M	M	M	M	M	M	M	M	M	M
5/26/83	* 20.0	-1.7	0		M 7.46	M	M	175	26	M	M	M	M	M	M	M	M	M	M	M
5/27/83	* 19.4	5.0	9.91		M 4.74	M	M	183	28	M	M	M	M	M	M	M	M	M	M	M
5/28/83	* 18.9	4.4	6.10		M 3.96	M	M	190	30	M	M	M	M	M	M	M	M	M	M	M
5/29/83	* 13.9	9.5	1.78		M 2.50	82	63	197	32	12.2	10.6	M	M	2.88	2.26	3	38	M	M	M
5/30/83	* 15.4	8.1	0		M 4.13	91	63	205	33	11.9	9.9	M	M	3.36	2.87	359	31	M	M	M
5/31/83	* 20.4	7.8	0		M 8.37	87	37	214	37	15.0	9.5	M	M	2.30	1.93	348	33	M	M	M
MONTHLY	MEAN 17.4	MEAN 2.6	TOTAL 46.74	TOTAL M	MEAN 6.04	MN. M	MN. M	TOTL 173	TOT 33	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

G R A N D   R A P I D S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 10	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
6/ 1/83	21.2	6.6	.25		M 5.01	94	30	224	41	15.1	11.1		M	M 1.90	.45	240	64	0	M	M	
6/ 2/83	24.6	10.4	0		M 7.41	86	35	237	49	17.7	11.9		M	M 1.70	.91	185	35	24	M	M	
6/ 3/83	20.1	9.7	0		M 4.82	94	46	247	54	16.2	13.1		M	M 1.50	.19	138	76	25	M	M	
6/ 4/83	19.1	8.5	4.06		M 5.03	98	54	257	58	15.4	12.5		M	M 2.19	1.71	347	38	44	M	M	
6/ 5/83	16.2	3.9	0		M 6.20	95	37	262	58	14.6	12.1		M	M 2.22	1.71	352	38	33	M	M	
6/ 6/83	21.4	3.6	0		M 8.99	95	25	270	60	15.2	11.1		M	M 2.87	2.17	323	40	0	M	M	
6/ 7/83	22.1	1.9	0		M 9.02	89	25	278	62	16.2	10.6		M	M 1.39	.57	340	62	9	M	M	
6/ 8/83	23.9	9.5	0		M 5.92	86	48	290	69	16.4	12.3		M	M 2.28	.69	142	63	26	M	M	
6/ 9/83	23.0	6.3	0		M 8.63	97	38	300	74	17.2	12.1		M	M 1.57	.92	356	52	38	M	M	
6/10/83	23.4	9.3	5.59		M 4.10	94	60	312	80	16.1	13.2		M	M 2.98	2.38	1	36	65	M	M	
6/11/83	28.4	14.9	0		M 7.56	95	49	330	92	20.1	14.5		M	M 2.70	2.38	169	28	31	M	M	
6/12/83	25.1	18.7	24.89		M 4.39	95	68	347	104	19.3	16.8		M	M 3.77	3.55	168	20	42	M	M	
6/13/83	27.3	16.9	6.35		M 3.54	94	64	365	116	19.7	17.6		M	M 3.56	2.96	168	35	57	M	M	
6/14/83	18.6	12.2	44.70		M 1.96	96	89	376	121	18.6	15.9		M	M 1.91	.46	155	80	80	M	M	
6/15/83	17.1	9.7	4.06		M 3.47	98	74	385	124	16.4	14.7		M	M 2.04	1.29	288	49	95	M	M	
6/16/83	15.8	6.3	0		M 4.33	98	65	391	125	15.1	13.6		M	M 2.08	1.58	345	40	45	M	M	
6/17/83	22.9	4.4	0		M 7.79	100	48	401	129	17.1	12.3		M	M 1.17	.49	332	62	1	M	M	
6/18/83	23.8	7.9	0		M 8.15	97	47	412	135	17.7	13.9		M	M 2.57	2.16	144	22	18	M	M	
6/19/83	25.8	11.2	0		M 7.74	89	54	426	143	17.9	15.0		M	M 3.37	2.96	152	28	0	M	M	
6/20/83	24.9	14.4	.76		M 5.32	92	70	441	153	17.9	15.7		M	M 3.08	2.74	159	27	14	M	M	
6/21/83	25.7	15.4	2.03		M 3.50	95	72	457	164	18.3	16.3		M	M 2.00	1.21	142	51	84	M	M	
6/22/83	30.1	17.5	0		M 8.04	92	54	477	178	21.1	17.5		M	M 2.57	1.18	251	59	60	M	M	
6/23/83	29.7	14.6	0		M 9.03	94	37	494	190	20.4	17.6		M	M 1.37	.72	342	56	56	M	M	
6/24/83	29.0	14.9	0		M 5.64	95	64	512	202		M	M	M	M 1.80	.13	141	44	37	M	M	
6/25/83	32.2	18.7	1.52		M 8.10	94	49	533	217		M	M	M	M 2.25	1.58	206	44	8	M	M	
6/26/83	28.2	17.1	0		M 5.86	93	32	551	230		M	M	M	M 1.88	1.08	330	53	6	M	M	
6/27/83	21.2	8.6	0		M 7.74	93	31	562	235		M	M	M	M 3.48	3.26	103	21	0	M	M	
6/28/83	24.5	6.8	0		M 9.17	73	33	573	240		M	M	M	M 3.26	2.97	113	24	0	M	M	
6/29/83	18.4	10.1	9.14		M 2.49	95	65	583	245	19.3	16.2	20.1	16.9	3.22	2.89	126	26	9	M	M	
6/30/83	25.4	13.5	0		M 6.11	96	66	598	254	23.4	15.6	20.8	16.1	2.06	.76	244	64	51	M	M	
MONTHLY	MEAN 23.6	MEAN 10.8	TOTAL 103.35	TOTAL M	MEAN 6.17	MN. 93	MN. 51	TOTL 383	TOT 217	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN 2.36	MEAN 1.60	MN. 217	MN. 45	MN 32	MEAN M	MEAN M
7/ 1/83	25.0	15.0	0		M 6.74	95	60	613	264	24.3	16.8	21.6	17.3	1.65	1.12	320	46	16	M	M	
7/ 2/83	24.8	14.1	51.05		M 3.95	96	75	628	274	22.7	17.6	20.4	17.7	3.12	2.54	133	35	36	M	M	
7/ 3/83	26.3	15.3	30.23		M 3.87	95	77	645	284	23.6	17.2	20.7	17.6	1.60	.17	222	77	60	M	M	
7/ 4/83	19.8	8.1	5.33		M 4.26	96	70	654	288	21.2	15.4	19.6	16.9	2.80	1.87	321	47	54	M	M	
7/ 5/83	20.8	5.7	0		M 8.70	97	44	663	291	23.6	12.9	20.2	14.6	1.16	.27	289	71	40	M	M	
7/ 6/83	27.5	8.5	0		M 8.55	96	62	676	299	25.2	14.5	21.8	15.7	2.27	1.99	170	29	26	M	M	
7/ 7/83	29.1	17.9	0		M 6.32	93	65	696	313	26.0	18.7	23.0	18.7	2.23	1.87	175	32	22	M	M	
7/ 8/83	33.5	19.6	0		M 8.09	90	63	718	330	31.1	20.6	26.2	20.4	2.18	1.64	119	40	1	M	M	
7/ 9/83	28.1	16.2	0		M 7.68	87	70	735	342	27.5	20.5	24.4	21.0	3.87	3.55	125	23	0	M	M	
7/10/83	32.7	15.8	0		M 8.07	94	46	755	356	30.1	19.7	25.8	20.1	2.89	2.60	167	26	0	M	M	
7/11/83	24.7	17.6	0		M 7.00	86	52	772	367	29.1	22.3	25.4	22.1	2.27	1.65	283	43	0	M	M	
7/12/83	31.0	13.1	0		M 8.63	95	34	790	379	30.6	19.5	26.3	20.3	1.66	.94	228	53	37	M	M	
7/13/83	32.7	17.1	0		M 8.27	91	57	810	394	31.8	21.1	27.6	21.7	2.03	1.61	174	37	25	M	M	
7/14/83	35.3	22.8	0		M 7.92	89	53	835	413	33.5	23.9	29.1	23.8	1.93	1.55	180	36	19	M	M	
7/15/83	31.2	21.3	6.35		M 7.25	92	60	856	429	31.7	24.5	28.5	24.5	2.66	2.51	170	19	36	M	M	
7/16/83	28.8	18.4	0		M 5.57	93	66	876	443	28.5	23.5	26.5	23.7	2.14	1.06	199	58	46	M	M	
7/17/83	27.1	15.0	3.30		M 4.79	94	59	892	454	26.6	20.8	24.6	21.8	1.23	.65	115	56	44	M	M	
7/18/83	26.5	16.0	0		M 4.34	94	79	909	465	25.2	19.9	23.3	20.7	1.54	.98	150	49	47	M	M	
7/19/83	31.1	16.3	0		M 6.07	93	61	928	479	28.3	19.8	25.3	20.5	1.50	.81	13	55	30	M	M	
7/20/83	27.5	17.0	0		M 4.07	93	79	946	491	26.1	21.1	24.3	21.6	1.69	1.02	127	51	36	M	M	
7/21/83	28.9	19.3	0		M 6.21	91	64	966	505	30.3	22.3	26.7	22.3	3.26	2.96	106	24	5	M	M	
7/22/83	31.2	17.8	0		M 7.88	92	39	986	520	32.4	22.3	28.3	22.6	1.52	.43	319	69	19	M	M	
7/23/83	25.4	16.7	0		M 7.01	92	59	1002	531	29.2	22.0	26.6	22.9	2.40	1.98	34	34	35	M	M	
7/24/83	27.2	14.3	0		M 6.66	94	47	1019	542	26.3	19.6	24.6	21.9	1.51	.59	40	63	46	M	M	
7/25/83	27.7	12.0	0		M 7.92	94	39	1034	551	26.7	16.7	24.4	19.6	1.49	1.12	128	40	28	M	M	
7/26/83	28.5	12.0	0		M 6.90	94	55	1050	562	27.9	18.2	24.7	19.7	2.04	1.81	168	27	30	M	M	
7/27/83	29.3	19.6	0		M 4.63	92	61	1070	576	26.6	21.2	24.6	21.2	1.96	1.66	177	32	42	M	M	
7/28/83	32.2	19.3	0		M 5.32	92	60	1091	592	30.3	21.9	26.4	21.9	1.54	1.05	187	46	54	M	M	
7/29/83	31.8	15.8	0		M 7.82	93	32	1111	606	32.0	20.8	27.8	26.6	1.45	.78	324	55	20	M	M	
7/30/83	24.1	15.6	35.05		M 2.94	93	76	1126	616	25.2	20.4	25.6	21.4	1.16	.22	122	73	27	M	M	
7/31/83	24.3	15.9	.51		M 6.75	93	63	1142	626	25.0	18.9	22.7	19.2	2.13	1.55	323	42	35	M	M	
MONTHLY	MEAN 28.2	MEAN 15.8	TOTAL 131.82	TOTAL M	MEAN 6.46	MN. 93	MN. 59	TOTL 544	TOT 372	MEAN 27.7	MEAN 19.8	MEAN 24.7	MEAN 20.6	MEAN 2.03	MEAN 1.44	MN. 181	MN. 45	MN 29	MEAN M	MEAN M	

G R A N D R A P I D S																					
DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 10	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
8/ 1/83	28.8	13.6			M	7.85	93	44	1159	637	28.4	18.1	24.8	18.9	1.19	.22	350	73	22	M	M
8/ 2/83	22.7	15.0	111.00		M	2.09	93	80	1173	646	22.6	18.5	22.9	19.2	2.16	1.54	166	44	48	M	M
8/ 3/83	29.7	19.2			M	5.71	92	70	1193	660	26.3	19.0	23.8	19.3	1.36	.62	8	60	65	M	M
8/ 4/83	30.8	17.9			M	7.51	92	58	1213	675	29.2	19.8	25.8	20.7	1.32	1.05	158	36	27	M	M
8/ 5/83	32.2	18.8			M	7.94	92	64	1234	690	31.0	21.4	27.4	21.8	1.55	.84	224	55	35	M	M
8/ 6/83	32.2	18.9			M	7.86	90	28	1255	706	32.0	22.5	28.6	23.2	1.40	.79	355	53	42	M	M
8/ 7/83	35.1	18.8			M	7.66	87	35	1277	723	32.3	22.3	29.0	23.4	2.35	1.27	250	55	10	M	M
8/ 8/83	26.5	14.7			M	7.52	92	40	1294	733	30.2	22.2	27.4	23.4	2.16	1.76	342	35	35	M	M
8/ 9/83	25.6	12.1	45.21		M	4.02	93	58	1308	742	26.3	19.9	25.0	21.8	1.62	1.19	154	42	32	M	M
8/10/83	24.2	14.9			M	3.83	93	70	1323	752	22.5	17.4	22.3	18.7	2.68	1.37	31	57	61	M	M
8/11/83	25.6	12.6			M	7.43	93	54	1338	761	25.9	16.1	23.2	17.9	1.39	.46	71	66	47	M	M
8/12/83	26.5	11.2			M	7.53	93	57	1352	770	27.2	16.8	24.2	18.4	2.03	1.77	170	29	20	M	M
8/13/83	28.0	17.5	2.79		M	6.11	92	51	1371	782	27.0	20.0	24.4	20.4	1.46	.54	246	64	20	M	M
8/14/83	29.3	14.3			M	7.48	92	40	1388	794	30.0	19.0	26.2	20.1	.93	.14	360	75	33	M	M
8/15/83	30.8	15.9			M	5.22	92	53	1407	807	28.4	20.2	25.5	21.1	1.30	1.02	172	38	31	M	M
8/16/83	22.2	14.3	3.81		M	2.20	92	75	1421	816	23.7	19.8	24.0	20.4	1.47	1.00	88	46	17	M	M
8/17/83	29.9	18.4			M	6.55	91	61	1440	830	28.2	19.2	25.1	19.6	1.22	.46	118	64	18	M	M
8/18/83	30.5	18.2			M	4.45	92	66	1460	844	28.4	20.4	25.0	21.0	1.71	1.44	168	32	11	M	M
8/19/83	25.3	11.8			M	5.65	93	50	1474	853	27.6	20.9	24.9	22.0	2.13	1.44	311	46	17	M	M
8/20/83	20.7	8.2			M	3.36	94	66	1484	857	21.9	17.1	22.3	18.9	1.87	1.56	120	33	16	M	M
8/21/83	26.8	14.7			M	3.27	92	76	1501	868	23.9	17.8	21.9	18.6	2.43	.61	4	70	17	M	M
8/22/83	25.3	11.6			M	6.78	93	40	1515	876	27.0	17.3	23.8	18.3	1.23	.78	357	49	5	M	M
8/23/83	25.5	14.1			M	5.71	92	45	1530	886	27.2	19.2	24.1	19.8	1.77	1.39	145	38	42	M	M
8/24/83	27.5	16.9	22.61		M	4.77	92	77	1548	898	24.5	17.2	22.8	19.6	2.16	1.77	164	34	32	M	M
8/25/83	32.2	20.9	8.89		M	5.37	91	66	1570	915	27.7	20.9	25.1	21.0	1.63	1.19	178	42	23	M	M
8/26/83	29.5	17.3			M	5.78	92	62	1589	928	26.8	19.8	24.7	21.1	1.64	.78	331	59	45	M	M
8/27/83	33.3	15.7	9.40		M	5.31	92	37	1609	943	28.2	19.4	25.1	20.5	1.14	.06	154	79	20	M	M
8/28/83	29.7	16.2			M	6.11	92	59	1628	956	26.6	18.3	24.5	20.1	1.76	.96	166	55	27	M	M
8/29/83	24.4	18.6	1.27		M	2.60	91	77	1645	967	22.9	17.7	23.2	21.1	1.94	.55	82	69	32	M	M
8/30/83	28.4	15.6			M	6.44	92	49	1662	979	27.0	18.3	24.2	19.5	1.30	.70	47	55	49	M	M
8/31/83	28.4	13.1			M	5.61	93	59	1678	990	27.3	18.1	24.4	19.4	1.32	1.07	175	35	17	M	M
MONTHLY	MEAN 28.0	MEAN 15.5	TOTAL 204.98		TOTAL M	MEAN 5.67	MN. 92	MN. 57	TOTL 537	TOT 364	MEAN 27.0	MEAN 19.2	MEAN 24.7	MEAN 20.3	MEAN 1.62	MEAN .98	MN. 183	MN. 51	MN 29	MEAN M	MEAN M
9/ 1/83	31.8	15.0			M	6.12	91	56	1697	1003	29.2	18.8	25.6	20.0	1.66	1.36	174	35		M	M
9/ 2/83	33.9	19.3	.51		M	5.63	91	58	1720	1020	30.6	21.6	27.0	21.9	2.01	1.77	168	28		M	M
9/ 3/83	28.2	17.2			M	3.37	91	38	1738	1033	27.0	21.7	25.3	22.7	1.30	.76	220	52		M	M
9/ 4/83	24.0	13.7	9.65		M	1.90	92	72	1752	1042	22.5	18.9	22.7	20.2	.98	.62	163	49		M	M
9/ 5/83	23.8	12.6	1.52		M	4.64	93	70	1766	1050	23.2	17.2	21.8	18.4	1.34	.77	177	53		M	M
9/ 6/83	18.0	11.2	.25		M	4.30	91	54	1776	1054	19.3	15.4	20.0	16.8	2.07	1.55	278	40		M	M
9/ 7/83	23.9	10.0			M	4.48	93	55	1789	1061	22.5	14.3	20.2	15.7	1.48	.72	202	58		M	M
9/ 8/83	28.9	13.5			M	5.14	91	66	1805	1073	25.0	15.6	22.2	16.7	2.69	2.06	170	39		M	M
9/ 9/83	24.0	17.4	15.75		M	4.39	92	73	1822	1083	25.6	19.6	23.1	19.9	2.22	1.03	52	59		M	M
9/10/83	19.9	10.6			M	5.04	92	52	1832	1088	21.2	15.4	21.2	17.4	2.45	1.66	319	46		M	M
9/11/83	12.8	7.8	2.54		M	1.48	93	80	1838	1089	15.4	12.8	17.4	14.8	1.19	.84	301	44		M	M
9/12/83	17.3	7.1	2.03		M	4.11	93	51	1846	1091	18.5	11.5	16.8	13.1	1.23	.77	343	50		M	M
9/13/83	17.5	3.9	1.02		M	5.58	93	53	1852	1092	18.3	11.2	16.5	12.9	1.24	.96	351	49		M	M
9/14/83	17.7	2.4	6.86		M	4.73	95	50	1858	1092	21.1	10.4	16.3	12.1	1.36	1.27	146	34		M	M
9/15/83	10.4	9.0	10.67		M	.49	93	91	1863	1092	13.9	11.3	14.8	12.2	4.69	4.46	109	18		M	M
9/16/83	12.5	8.9			M	1.09	92	88	1869	1092	13.1	11.0	12.9	11.8	2.39	1.93	98	36		M	M
9/17/83	16.3	8.9	.76		M	2.40	92	79	1878	1095	14.8	11.3	13.9	11.9	3.18	2.69	158	32		M	M
9/18/83	15.8	6.3			M	5.50	90	50	1884	1096	16.2	11.2	14.9	12.4	2.34	1.70	276	42		M	M
9/19/83	10.4	5.8			M	1.60	91	77	1888	1096	12.8	10.3	12.8	11.3	1.51	1.06	329	44		M	M
9/20/83	8.5	5.1	2.54		M	2.99	91	81	1890	1096	12.4	8.9	11.8	10.2	2.42	1.94	314	36		M	M
9/21/83	8.3	3.1	1.78		M	3.50	93	76	1891	1096	11.8	7.6	11.2	8.9	2.41	1.94	314	36		M	M
9/22/83	6.5	.4			M	2.06	93	79	1891	1096	9.9	6.5	9.6	8.2	2.26	1.81	331	36		M	M
9/23/83	14.4	-2.3			M	5.08	95	39	1893	1096	15.5	4.1	10.9	6.1	1.60	1.15	191	43		M	M
9/24/83	18.7	3.4			M	4.54	93	56	1900	1097	15.5	6.2	12.9	7.6	1.95	1.68	171	30		M	M
9/25/83	25.4	2.6			M	4.71	93	30	1909	1101	18.3	8.1	15.1	9.2	.85	.50	174	52		M	M
9/26/83	25.3	7.1			M	4.95	93	34	1921	1107	20.2	11.0	16.8	11.0	.97	.31	118	67		M	M
9/27/83	23.1	7.4			M	3.47	92	72	1932	1113	18.5	11.5	16.0	12.3	2.52	2.23	155	28		M	M
9/28/83	24.8	13.2	.25		M	2.38	91	71	1946	1122	19.5	13.6	16.8	13.7	2.66	.98	182	64		M	M
9/29/83	13.2	9.9	9.65		M	.98	93	88	1953												

G R A N D   R A P I D S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 10	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
10/ 1/83	17.2	10.0	.51		M	.79	91	85	1973	1131	16.4	13.6	15.2	14.1	1.84	.29	298	74	M	M	M
10/ 2/83	14.5	8.9	17.53		M	1.14	91	87	1980	1133	14.6	11.6	14.1	12.7	1.74	.98	63	53	M	M	M
10/ 3/83	11.6	8.0	.51		M	1.14	92	89	1985	1133	13.5	11.8	13.3	12.2	2.06	1.47	354	44	M	M	M
10/ 4/83	10.9	6.8	6.86		M	1.31	97	85	1990	1133	12.7	10.4	12.2	11.0	2.39	2.15	163	26	M	M	M
10/ 5/83	13.0	5.9	.51		M	2.39	91	73	1995	1133	14.0	9.7	12.6	10.7	2.34	1.25	300	55	M	M	M
10/ 6/83	13.1	1.9	2.03		M	4.38	93	47	1998	1133	13.3	6.2	11.6	8.1	1.54	.98	291	49	M	M	M
10/ 7/83	7.1	- 7	3.81		M	.43	93	91	1998	1133	9.8	6.0	10.3	7.7	2.12	1.28	61	51	M	M	M
10/ 8/83	14.1	-2.4	0		M	4.22	94	31	1999	1133	12.9	3.9	10.6	5.7	.84	.25	185	68	M	M	M
10/ 9/83	13.7	-1.8	0		M	4.09	93	42	2001	1133	11.1	4.1	9.5	5.9	3.14	2.97	170	19	M	M	M
10/10/83	10.4	7.3	20.57		M	.29	92	71	2005	1133	9.3	7.6	8.8	8.0	3.93	3.74	170	18	M	M	M
10/11/83	11.7	-2.0	0		M	3.42	93	46	2006	1133	12.3	5.8	10.7	7.7	1.92	1.18	313	50	M	M	M
10/12/83	6.7	-2.5	.25		M	3.24	93	45	2006	1133	10.0	3.6	7.7	5.2	2.35	2.00	354	27	M	M	M
10/13/83	4.7	1.1	.25		M	1.71	93	85	2006	1133	8.0	5.0	7.4	5.8	2.55	2.28	356	27	M	M	M
10/14/83	12.1	1.7	1.27		M	3.69	93	42	2008	1133	11.1	5.2	9.1	5.8	2.01	1.37	345	46	M	M	M
10/15/83	6.3	1.0	4.83		M	.43	93	75	2008	1133	6.3	4.6	6.9	5.6	4.16	3.92	116	19	M	M	M
10/16/83	8.4	2.3	0		M	1.30	94	77	2009	1133	8.3	6.1	7.5	6.2	2.14	1.35	298	5	M	M	M
10/17/83	11.0	-2.2	0		M	3.00	93	58	2009	1133	9.5	3.3	7.8	4.6	1.37	.81	301	52	M	M	M
10/18/83	4.0	1.6	0		M	.46	89	69	2009	1133	6.6	4.5	6.9	5.0	3.45	3.17	99	23	M	M	M
10/19/83	7.7	3.1	.25		M	.89	92	87	2010	1133	7.3	4.4	6.5	4.8	3.54	3.32	120	20	M	M	M
10/20/83	12.1	.9	0		M	3.45	92	35	2012	1133	10.2	5.1	8.4	5.6	2.88	2.58	128	26	M	M	M
10/21/83	12.1	.8	0		M	2.59	93	51	2014	1133	10.4	4.6	8.5	5.2	1.73	1.50	146	29	M	M	M
10/22/83	13.7	2.3	0		M	1.46	92	71	2018	1133	10.8	6.3	9.1	7.2	.88	.41	97	59	M	M	M
10/23/83	13.7	.4	2.03		M	2.61	95	44	2020	1133	10.4	5.4	8.6	6.0	2.14	1.96	163	24	M	M	M
10/24/83	8.3	3.1	0		M	.41	92	86	2021	1133	7.8	5.2	7.2	6.2	1.89	.89	218	59	M	M	M
10/25/83	10.9	-1.2	0		M	2.25	91	40	2022	1133	8.0	2.9	6.7	4.1	1.45	.80	243	54	M	M	M
10/26/83	12.7	.9	0		M	3.11	91	48	2024	1133	9.6	2.9	7.5	3.9	1.34	.63	315	59	M	M	M
10/27/83	25.0	3.1	0		M	3.18	87	21	2034	1137	12.3	3.6	9.3	4.4	1.36	.82	210	51	M	M	M
10/28/83	13.9	-1.1	0		M	2.08	94	55	2036	1137	8.7	4.5	8.0	5.8	2.64	2.10	338	37	M	M	M
10/29/83	10.4	-4.7	0		M	3.05	93	44	2036	1137	8.4	2.3	6.7	3.6	1.07	.76	165	44	M	M	M
10/30/83	14.1	-2.1	0		M	2.91	92	42	2037	1137	8.7	2.1	6.7	3.2	1.69	1.37	172	35	M	M	M
10/31/83	8.8	2.7	0		M	.86	92	79	2039	1137	7.7	4.2	6.7	4.8	2.89	2.74	170	19	M	M	M
MONTHLY	MEAN 11.4	MEAN 1.7	TOTAL 61.21	TOTAL M	MEAN 2.14	MN. 92	MN. 61	TOTL 75	TOT 9	MEAN 10.3	MEAN 5.7	MEAN 9.2	MEAN 6.7	MEAN 2.17	MEAN 1.66	MN. 217	MN. 39	MN M	MEAN M	MEAN M	

L A M B E R T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83	3.9	- .6	0		M	2.12	M	M	0	0	1.7	1.7	M	M	M	M	M	M	M	M
4/ 2/83	3.3	0	0		M	1.52	M	M	0	0	1.7	1.7	M	M	M	M	M	M	M	M
4/ 3/83	5.0	0	0		M	2.02	M	M	0	0	1.7	1.7	M	M	M	M	M	M	M	M
4/ 4/83	7.2	-1.7	0		M	3.39	M	M	0	0	1.7	1.7	M	M	M	M	M	M	M	M
4/ 5/83	4.0	.1	16.00		M	M	100	69	0	0	M	M	M	M	M	M	M	M	M	M
4/ 6/83	1.5	-.3	0		M	2.46	100	95	0	0	M	M	M	M	2.99	2.56	332	31	M	.64
4/ 7/83	7.4	-.2	0		M	4.06	100	61	0	0	M	M	M	M	3.69	2.52	335	46	M	.64
4/ 8/83	9.6	-2.8	0		M	4.59	100	50	0	0	M	M	M	M	2.18	.94	62	61	M	.64
4/ 9/83	4.9	-.9	5.33		M	1.04	100	70	0	0	M	M	M	M	5.15	4.69	16	24	M	.65
4/10/83	10.4	-1.2	0		M	4.99	100	55	0	0	M	M	M	M	4.79	3.06	339	49	M	.64
4/11/83	12.4	-1.4	0		M	6.13	100	56	0	1	M	M	M	M	3.23	2.04	104	49	M	.74
4/12/83	4.9	.4	21.84		M	.66	100	90	0	1	M	M	M	M	6.97	6.41	69	23	M	.69
4/13/83	2.1	.6	3.81		M	.69	100	98	0	1	M	M	M	M	7.35	6.63	356	25	M	.69
4/14/83	.7	-4.1	0		M	3.60	100	71	0	1	M	M	M	M	10.6	10.3	327	14	M	.50
4/15/83	5.3	-5.4	0		M	6.75	100	49	0	1	M	M	M	M	4.58	3.06	278	47	M	.48
4/16/83	4.7	-2.0	2.79		M	4.76	100	49	0	1	M	M	M	M	5.18	4.65	317	26	M	.51
4/17/83	3.1	-2.1	0		M	2.77	100	70	0	1	M	M	M	M	2.93	2.66	147	25	M	.55
4/18/83	6.7	-2.8	0		M	5.00	91	48	0	1	M	M	M	M	3.19	2.80	132	29	M	.45
4/19/83	10.0	-3.7	0		M	6.37	100	48	0	1	M	M	M	M	2.48	2.02	159	35	M	.54
4/20/83	15.0	-2.1	0		M	6.45	100	46	0	4	M	M	M	M	2.52	2.14	157	31	M	.72
4/21/83	17.4	1.3	0	3.30		5.29	100	43	0	8	11.1	4.3	7.8	4.6	2.02	1.65	125	34	M	.84
4/22/83	18.3	4.8	0	2.54		2.80	100	44	2	12	10.7	6.0	8.1	6.0	1.82	.84	319	60	M	.99
4/23/83	16.2	1.3	0	5.84		6.80	84	29	2	15	11.4	4.4	8.4	5.6	4.18	3.42	352	35	M	.61
4/24/83	19.6	.5	0	4.83		7.10	88	23	2	20	13.3	3.9	9.5	5.3	2.41	1.09	224	60	M	.60
4/25/83	22.2	4.4	0	7.62		6.71	72	27	5	26	12.3	5.8	9.4	6.7	5.44	5.18	173	18	M	.78
4/26/83	21.6	6.4	0	7.62		5.67	75	39	9	31	13.7	8.2	10.6	8.1	4.88	2.56	280	56	M	.99
4/27/83	18.3	2.4	1.02	3.81		6.78	84	32	9	36	13.4	6.0	10.4	7.4	3.12	1.64	289	56	M	.67
4/28/83	17.2	4.3	2.03	0		2.97	100	56	10	39	11.7	8.1	10.0	8.8	3.62	1.81	254	57	M	1.07
4/29/83	14.0	3.7	5.08	0		5.33	100	44	10	41	13.1	5.0	9.9	6.9	2.28	1.39	333	51	M	.69
4/30/83	15.6	3.8	0	3.81		6.13	100	45	10	44	14.2	7.2	11.0	7.8	2.20	1.59	53	43	M	.85
MONTHLY	MEAN 10.1	MEAN .1	TOTAL 57.90	TOTAL M	MEAN 4.17	MN. M	MN. M	TOTL 10	TOT 44	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83	11.9	4.4	30.99	0	1.87	100	53	10	45	9.7	7.1	10.1	7.8	7.30	6.39	59	29	41	.89	.19
5/ 2/83	15.6	3.1	0	3.81	3.85	100	64	10	48	11.3	6.1	9.1	6.9	5.39	4.77	1	27	31	.97	.20
5/ 3/83	20.4	4.5	0	5.33	6.28	97	35	12	53	14.0	6.5	10.7	7.3	3.28	2.89	304	28	2	.82	.65
5/ 4/83	15.5	3.0	0	7.62	6.98	83	40	12	56	12.5	6.3	10.3	7.8	3.99	3.22	318	36	1	.69	.51
5/ 5/83	23.6	8.2	18.80	0	6.73	98	46	18	63	16.2	8.3	12.7	8.7	3.99	2.72	155	46	29	1.18	.68
5/ 6/83	13.5	8.1	47.50	0	.65	100	96	19	64	13.2	10.6	12.3	10.7	7.38	6.29	76	31	60	1.38	.00
5/ 7/83	15.4	5.2	0	6.10	6.99	100	43	19	67	13.7	8.8	11.3	9.3	7.49	6.19	6	34	18	.87	.36
5/ 8/83	16.8	2.8	0	6.35	7.59	100	36	19	70	14.2	6.8	11.5	8.3	3.63	3.29	163	25	0	.75	.55
5/ 9/83	19.0	5.5	0	8.38	7.22	82	42	22	75	13.3	7.3	11.2	8.7	6.56	6.25	151	18	0	.82	.66
5/10/83	23.9	10.4	0	8.13	7.11	66	37	29	82	15.3	8.9	12.5	9.4	5.45	5.15	168	19	0	.98	.99
5/11/83	26.6	11.9	0	7.62	6.30	98	35	38	91	17.3	11.1	14.0	11.0	3.73	2.82	158	40	1	1.28	.96
5/12/83	22.5	6.7	2.29	0	2.29	100	77	43	98	16.4	11.3	13.9	12.6	4.11	2.14	184	56	18	1.56	.14
5/13/83	17.1	2.7	0	7.62	6.96	100	46	43	101	15.7	8.6	13.4	10.3	3.81	2.85	259	41	6	.88	.44
5/14/83	10.7	1.4	0	3.81	4.50	84	45	43	101	10.8	7.4	12.2	9.4	5.48	5.22	331	18	0	.59	.34
5/15/83	18.4	2.0	0	3.81	6.13	98	36	43	106	14.2	5.5	11.4	7.8	3.57	1.59	266	60	2	.73	.51
5/16/83	16.1	3.9	0	3.81	6.52	97	51	43	109	15.1	7.9	12.2	9.1	2.80	2.25	49	36	0	.86	.36
5/17/83	18.8	4.9	0	3.81	4.38	100	45	45	113	13.4	8.9	11.8	9.9	3.82	3.07	164	36	0	.98	.38
5/18/83	12.3	5.8	3.81	0	1.03	100	97	45	114	10.9	9.6	11.1	10.0	5.39	5.14	82	18	87	1.23	.00
5/19/83	13.1	8.0	0	0	1.21	100	92	45	116	15.4	4.8	16.6	6.7	3.80	3.10	340	35	43	1.29	.01
5/20/83	18.8	5.1	0	3.81	4.67	100	49	47	120	14.3	1.9	12.0	4.4	2.84	1.65	279	52	37	1.14	.24
5/21/83	24.6	6.9	0	7.62	6.48	100	38	53	128	16.1	9.5	13.5	10.2	4.99	4.78	192	16	0	1.18	.74
5/22/83	17.2	7.9	0	7.62	7.31	100	40	56	131	15.1	11.0	13.3	11.8	5.96	5.32	317	26	0	1.10	.44
5/23/83	24.1	4.3	0	7.62	7.63	85	26	60	138	17.2	8.7	14.5	10.2	3.48	2.83	247	35	0	.83	1.10
5/24/83	24.7	8.3	0	10.67	5.84	67	43	66	146	18.6	12.2	15.3	12.4	6.45	2.93	292	60	0	1.06	.98
5/25/83	18.0	2.4	0	7.62	8.00	70	21	66	150	18.4	9.7	15.4	11.3	3.37	2.56	349	40	0	.50	.87
5/26/83	23.8	4.5	0	7.62	6.17	59	20	71	156	18.1	10.4	16.0	11.6	4.41	4.15	173	20	0	.71	1.23
5/27/83	31.1	13.7	0	11.43	7.29	97	31	83	168	22.9	13.7	19.4	13.6	4.68	2.18	115	59	1	1.54	1.04
5/28/83	25.3	10.0	4.83	3.81	6.09	100	26	91	176	19.9	15.1	17.8	15.3	4.17	2.82	325	46	30	1.26	.80
5/29/83	13.6	7.0	.51	3.81	3.15	100	42	91	178	15.6	12.2	16.1	12.9	7.12	6.64	330	21	17	.90	.36
5/30/83	17.0	7.5	0	7.62	4.71	100	49	93	181	15.5	10.7	14.1	11.4	5.20	4.65	31	26	39	1.10	.27
5/31/83	21.4	8.9	0	7.62	6.20	100	34	98	187	18.7	11.4	16.3	11.9	3.88	3.28	330	32	4	1.01	.71
MONTHLY	MEAN 19.1	MEAN 6.1	TOTAL 108.73	TOTAL 163.07	MEAN 5.42	MN. 93	MN. 46	TOTL 88	TOT 143	MEAN 15.3	MEAN 9.0	MEAN 13.3	MEAN 10.0	MEAN 4.76	MEAN 3.84	MN. 200	MN. 34	MN 15	MEAN 1.00	MEAN .54



L A M B E R T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	23.3	7.6	0	7.62	5.43	88	32	104	194	19.3	12.3	16.9	12.9	3.51	3.28	227	21	0	.91	.99
6/ 2/83	21.2	7.3	12.45	0	3.38	100	60	108	199	16.9	12.6	15.4	13.2	3.39	2.37	128	44	43	1.38	.27
6/ 3/83	22.8	11.1	0	7.87	6.53	100	31	115	206	18.1	13.8	16.4	13.7	3.96	3.52	313	27	36	1.33	.65
6/ 4/83	19.7	11.1	0	8.13	7.00	97	47	120	212	18.1	12.9	16.5	13.4	4.42	3.94	317	27	31	1.15	.59
6/ 5/83	17.8	7.3	0	7.62	3.85	91	31	123	215	16.0	13.0	15.2	13.6	4.60	4.26	328	22	1	.95	.60
6/ 6/83	22.5	4.8	0	6.86	8.01	84	23	126	222	19.5	10.5	17.1	11.7	3.88	3.33	291	30	0	.74	1.10
6/ 7/83	27.5	8.9	0	7.62	7.91	64	18	135	230	22.2	12.8	19.3	13.4	2.76	2.24	268	35	0	.76	1.54
6/ 8/83	28.8	12.1	0	7.62	6.23	63	27	145	241	21.8	14.9	19.4	15.2	3.48	1.64	298	59	0	.98	1.55
6/ 9/83	28.0	7.2	0	10.92	7.71	88	13	153	250	23.1	14.9	20.5	15.4	3.06	1.78	110	52	0	.77	1.76
6/10/83	33.3	15.0	0	11.43	6.88	69	31	167	262	24.3	16.9	21.6	17.0	6.30	5.49	184	29	1	1.42	1.85
6/11/83	28.3	17.6	4.83	.76	3.85	99	42	180	275	22.4	18.5	20.4	18.4	4.89	4.62	167	19	20	1.85	.76
6/12/83	25.9	17.5	0	5.84	2.17	98	72	192	287	20.0	17.6	18.7	17.5	6.47	6.28	175	14	1	2.32	.35
6/13/83	28.4	15.9	59.44	42.67	3.04	100	57	204	299	22.5	17.6	20.3	18.0	6.26	3.92	182	50	44	2.10	.45
6/14/83	22.7	13.4	2.03	.76	5.12	100	62	212	307	20.2	16.2	18.6	15.9	4.09	2.65	291	48	34	1.68	.28
6/15/83	19.9	10.7	0	7.37	7.30	99	64	217	313	19.7	15.2	18.3	15.7	4.05	3.16	290	38	0	1.45	.38
6/16/83	21.0	7.9	0	6.10	7.71	100	52	222	318	20.2	13.4	18.5	14.5	2.56	1.77	327	45	0	1.29	.42
6/17/83	20.5	10.7	1.02	0	3.44	99	66	227	324	17.6	14.5	17.1	15.2	3.20	2.91	102	24	34	1.60	.28
6/18/83	23.6	15.5	0	6.10	4.42	100	74	237	333	19.0	15.8	17.9	15.9	5.52	5.30	118	16	25	1.95	.21
6/19/83	24.3	14.0	19.05	0	4.15	100	77	246	342	19.4	15.7	18.3	16.0	4.37	4.08	141	21	9	2.07	.20
6/20/83	28.5	18.1	.51	4.57	5.09	100	75	259	356	22.6	17.5	20.5	17.2	4.29	3.17	134	41	25	2.51	.24
6/21/83	31.6	21.5	0	7.62	6.41	98	62	276	371	24.1	19.8	22.0	19.1	5.74	5.42	172	19	0	2.91	.63
6/22/83	31.7	19.7	0	9.65	6.71	88	45	291	386	25.7	20.7	23.4	20.2	5.74	3.25	231	53	0	2.53	1.00
6/23/83	31.8	14.6	0	7.62	7.80	100	38	305	399	26.1	19.2	23.8	19.5	2.76	1.90	106	45	4	1.88	1.34
6/24/83	34.0	20.0	0	7.62	5.06	93	56	322	414	25.2	20.9	22.7	20.8	4.05	3.00	141	41	3	2.38	.78
6/25/83	33.7	20.5	0	10.92	7.07	96	38	339	429	26.7	20.6	24.3	20.5	5.05	4.87	196	15	0	2.31	1.44
6/26/83	31.8	21.2	12.19	0	5.73	98	49	355	444	27.7	21.9	24.9	21.6	3.19	1.37	220	61	7	2.48	.77
6/27/83	21.3	15.1	7.62	0	1.46	100	88	364	453	22.9	18.2	22.7	18.8	4.90	4.72	51	15	62	2.01	.07
6/28/83	17.6	13.5	23.62	0	.92	100	98	369	458	18.2	16.8	18.8	17.3	4.65	4.43	69	18	97	1.77	.01
6/29/83	22.3	16.0	4.83	0	1.65	100	94	378	467	19.1	16.8	18.5	17.1	4.14	2.70	147	48	58	2.16	.06
6/30/83	32.0	17.0	15.24	0	7.49	99	68	393	481	23.7	17.4	21.9	17.5	4.33	3.51	215	35	9	2.69	.51
MONTHLY	MEAN 25.9	MEAN 13.8	TOTAL 162.83	TOTAL 180.34	MEAN 5.32	MN. 94	MN. 53	TOTL 294	TOT 294	MEAN 21.4	MEAN 16.3	MEAN 19.7	MEAN 16.5	MEAN 4.32	MEAN 3.50	MN. 198	MN. 34	MN 18	MEAN 1.74	MEAN .70
7/ 1/83	30.3	18.8	1.02	3.81	6.68	99	59	407	495	25.2	19.8	23.7	19.7	2.17	.16	292	78	39	2.48	.50
7/ 2/83	29.5	19.4	0	5.84	4.83	99	84	422	510	23.3	20.6	22.4	20.5	5.39	4.51	159	33	36	2.87	.28
7/ 3/83	27.3	14.8	3.05	2.54	3.01	97	60	433	521	23.7	19.6	22.5	20.2	4.03	2.89	266	43	8	2.56	.33
7/ 4/83	23.9	13.7	0	5.33	7.24	99	64	442	530	22.2	17.1	21.0	17.9	5.55	4.23	279	40	0	1.74	.43
7/ 5/83	24.8	15.1	0	2.79	6.81	99	45	452	539	23.3	17.9	22.1	18.2	2.00	1.06	347	55	0	1.69	.55
7/ 6/83	30.3	16.0	0	10.67	7.89	98	42	465	553	23.5	18.4	22.5	18.7	5.23	5.01	187	17	0	1.97	1.10
7/ 7/83	32.9	20.3	0	14.73	7.48	87	41	481	568	25.6	19.4	24.2	19.6	7.50	7.32	193	13	0	2.14	1.37
7/ 8/83	34.9	22.1	0	11.43	7.62	78	38	500	584	28.2	21.0	26.4	21.0	5.47	5.26	211	16	0	2.23	1.63
7/ 9/83	35.4	20.6	0	11.43	7.72	91	33	518	599	29.2	21.9	27.3	22.0	4.33	4.15	187	16	0	2.16	1.75
7/10/83	35.6	21.7	0	14.22	7.78	80	26	536	615	29.2	22.7	27.4	22.7	5.64	5.50	187	13	0	2.05	1.99
7/11/83	27.3	16.2	0	9.40	7.57	83	35	548	627	28.3	23.2	26.5	23.2	4.56	3.64	303	36	0	1.53	1.32
7/12/83	31.9	13.4	0	7.11	8.06	96	20	561	638	29.0	20.5	27.1	21.1	2.88	2.53	214	28	0	1.42	1.75
7/13/83	35.5	19.9	0	13.97	7.04	80	35	578	653	28.9	22.4	27.2	22.5	5.14	4.89	196	18	0	2.16	1.85
7/14/83	35.6	22.3	0	11.68	7.19	85	34	597	669	29.9	23.2	27.9	23.2	5.14	5.00	187	14	0	2.29	1.69
7/15/83	32.0	22.6	0	9.91	7.03	87	47	615	686	29.3	23.6	27.4	23.6	5.31	5.11	177	16	0	2.33	1.32
7/16/83	30.3	21.4	0	8.89	5.67	95	58	631	701	28.8	23.7	27.1	23.6	3.02	1.10	216	64	0	2.55	.81
7/17/83	27.4	19.6	31.50	0	3.32	99	86	644	715	25.3	22.4	M	M	2.66	1.30	131	58	22	2.65	.18
7/18/83	32.8	20.1	0	3.81	6.16	99	63	661	730	27.2	21.4	M	M	2.84	1.31	133	59	24	2.82	.37
7/19/83	34.8	22.3	.51	7.62	7.07	98	70	679	746	28.8	22.8	M	M	2.89	1.28	138	61	48	3.21	.44
7/20/83	35.8	20.7	0	7.62	7.36	98	48	697	761	29.4	23.2	M	M	2.74	1.93	173	44	30	3.02	1.02
7/21/83	35.6	25.6	0	8.89	7.26	96	54	718	779	31.2	23.9	M	M	4.36	2.94	236	46	0	3.05	1.23
7/22/83	31.7	22.3	0	7.62	6.41	97	58	735	795	30.6	25.2	M	M	2.67	2.29	324	31	19	2.83	.59
7/23/83	29.5	19.7	0	7.62	6.05	97	45	750	810	29.1	24.2	M	M	2.57	1.98	312	39	21	2.32	.71
7/24/83	27.0	16.2	0	3.81	5.49	99	59	761	822	27.2	22.6	M	M	1.83	1.46	313	37	2	2.12	.55
7/25/83	29.6	15.4	0	5.08	7.17	99	46	774	834	28.2	21.4	M	M	1.77	.73	79	62	0	2.07	.78
7/26/83	30.1	17.0	0	8.89	7.16	98	50	787	848	28.1	21.7	M	M	3.23	3.01	176	21	0	2.18	.93
7/27/83	30.1	19.8	4.32	0	3.89	98	72	802	863	25.6	22.2	M	M	2.12	1.64	176	38	35	2.65	.34
7/28/83	30.6	19.2	.51	2.79	3.38	99	74	817	877	25.9	22.1	M	M	1.20	.26	223	72	75	2.87	.25
7/29/83	34.8	19.7	0	6.60	7.29	98	32	834	892	29.4	22.2	M	M	1.52	.41	265	69	31	2.41	1.17
7/30/83	31.0	19.4	0	7.37	6.52	97	53	850	907	28.3	22.7	M	M	2.23	1.54	252	45	18	2.55	.74
7/31/83	27.3	16.0	0	9.14	7.43	97	42	861	918	28.7	22.4	M	M	3.06	2.66	312	30	3	1.93	.86
MONTHLY	MEAN 31.2	MEAN 19.1	TOTAL 40.91	TOTAL 230.61	MEAN 6.50	MN. 94	MN. 51	TOTL 469	TOT 438	MEAN 27.4	MEAN 21.8	MEAN M	MEAN M	MEAN 3.58	MEAN 2.81	MN. 221	MN. 39	MN 13	MEAN 2.35	MEAN .93

L A M B E R T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.6	14.0	0	7.37	7.42	98	39	874	930	28.2	21.1	M	M	1.66	.36	174	72	0	1.85	1.02
8/ 2/83	34.4	17.7	0	7.62	6.73	95	54	890	944	28.0	21.9	M	M	3.83	3.56	177	21	0	2.68	1.07
8/ 3/83	33.4	21.7	0	8.89	6.95	96	52	907	960	30.4	24.2	M	M	2.57	1.45	291	53	12	2.86	1.08
8/ 4/83	33.3	18.8	0	6.35	6.81	98	52	923	974	29.4	23.7	M	M	1.34	.96	72	43	43	2.68	.84
8/ 5/83	33.5	18.7	0	6.35	6.59	98	52	939	989	29.2	23.6	M	M	1.40	1.07	103	39	49	2.67	.67
8/ 6/83	34.6	18.7	0	6.35	6.85	98	47	956	1003	29.9	23.5	M	M	1.39	.49	328	65	37	2.56	1.02
8/ 7/83	34.8	16.6	0	11.43	7.07	98	36	972	1017	29.3	23.2	M	M	1.59	1.51	227	18	23	2.41	1.20
8/ 8/83	29.9	15.4	0	8.89	6.87	97	38	984	1029	28.7	23.7	M	M	2.49	1.22	13	58	8	1.97	1.08
8/ 9/83	29.5	13.1	0	6.35	5.35	99	42	996	1040	26.8	21.7	M	M	1.96	1.72	140	29	25	1.87	.88
8/10/83	29.6	17.1	0	6.35	5.40	93	55	1009	1054	26.7	23.2	M	M	4.74	2.62	284	54	1	2.32	.89
8/11/83	25.6	13.1	0	5.84	6.69	100	62	1018	1063	26.0	21.2	M	M	2.34	1.34	30	53	18	1.81	.41
8/12/83	28.3	10.5	0	7.62	6.96	100	56	1028	1073	26.6	19.8	M	M	2.55	2.39	178	20	31	1.92	.65
8/13/83	30.3	16.6	.51	5.84	5.40	98	45	1041	1086	26.9	21.7	M	M	2.25	.92	274	62	2	2.20	.72
8/14/83	33.3	14.0	0	6.35	6.83	100	36	1055	1098	28.9	21.1	M	M	.95	.55	150	52	14	1.95	1.18
8/15/83	35.8	18.6	6.86	0	5.95	97	52	1072	1112	28.0	22.5	M	M	1.59	1.27	191	36	3	2.67	.91
8/16/83	30.8	20.7	0	3.81	4.45	98	78	1088	1127	26.9	23.5	M	M	2.33	1.37	78	52	3	2.83	.32
8/17/83	31.3	19.6	6.86	1.27	6.42	98	51	1103	1142	29.3	23.0	M	M	1.98	1.51	319	39	33	2.46	.72
8/18/83	34.3	18.6	0	8.89	4.92	98	62	1120	1157	26.8	22.7	M	M	3.25	2.41	158	41	30	2.78	.75
8/19/83	31.3	18.3	0	7.62	6.16	95	44	1134	1171	30.1	23.3	M	M	3.41	1.65	294	58	4	2.27	1.24
8/20/83	31.0	16.7	8.38	1.27	6.27	96	54	1148	1184	27.5	22.2	M	M	3.01	2.24	112	41	9	2.22	.70
8/21/83	30.0	20.9	0	5.08	4.94	97	73	1164	1200	27.9	22.8	M	M	1.94	1.31	326	46	0	2.72	.36
8/22/83	27.8	15.4	0	7.62	6.25	98	40	1175	1211	27.7	22.3	M	M	2.57	1.88	44	42	0	1.94	.69
8/23/83	27.6	15.1	0	3.56	4.23	98	81	1187	1222	25.8	20.8	M	M	2.75	2.52	131	24	0	2.38	.25
8/24/83	26.6	19.4	.76	0	1.52	98	90	1200	1235	23.6	21.8	M	M	2.43	2.11	142	30	13	2.67	.14
8/25/83	30.3	20.9	0	7.37	5.43	97	75	1215	1251	27.6	21.9	M	M	3.36	2.70	150	36	16	2.83	.37
8/26/83	34.2	22.2	8.38	0	5.72	97	67	1233	1267	30.4	23.2	M	M	2.57	1.00	64	63	17	3.17	.57
8/27/83	32.0	19.2	0	4.83	5.79	97	56	1249	1282	28.5	23.3	M	M	1.97	1.05	179	55	13	2.61	.70
8/28/83	33.7	19.6	0	7.62	6.16	97	59	1266	1296	29.4	22.6	M	M	2.16	1.93	195	27	0	2.77	.68
8/29/83	33.3	18.2	11.18	0	5.72	98	56	1281	1310	29.2	22.6	M	M	3.84	1.41	152	64	12	2.58	.80
8/30/83	29.0	15.9	0	3.81	6.09	99	73	1294	1323	27.4	21.3	M	M	2.14	1.31	3	50	36	2.40	.31
8/31/83	30.1	15.7	0	6.86	5.96	99	49	1307	1336	27.3	21.0	M	M	.94	.61	141	48	36	2.08	.63
MONTHLY	MEAN 31.3	MEAN 17.4	TOTAL 42.93	TOTAL 171.21	MEAN 5.93	MN. 97	MN. 56	TOTL 445	TOT 417	MEAN 28.0	MEAN 22.4	MEAN M	MEAN M	MEAN 2.36	MEAN 1.56	MN. 165	MN. 45	MN. 16	MEAN 2.42	MEAN .74
9/ 1/83	31.5	16.6	0	3.30	5.77	97	66	1321	1349	27.6	20.9	M	M	3.04	2.83	190	22	M	2.55	.61
9/ 2/83	34.3	20.1	.76	11.43	5.93	94	42	1338	1364	28.9	22.1	M	M	4.06	3.90	188	16	M	2.53	1.09
9/ 3/83	30.6	20.1	.51	3.81	3.74	96	51	1353	1379	26.9	22.7	M	M	2.06	1.32	196	48	M	2.32	.82
9/ 4/83	24.6	16.2	2.79	0	1.75	98	74	1364	1389	24.1	21.2	M	M	1.83	.22	286	76	M	2.27	.20
9/ 5/83	25.6	15.2	0	3.81	4.09	99	33	1374	1400	24.5	20.0	M	M	2.35	1.14	273	58	M	1.95	.33
9/ 6/83	23.4	11.3	0	7.11	5.80	95	22	1381	1407	23.8	18.7	M	M	4.23	3.94	266	21	M	1.14	.92
9/ 7/83	28.1	9.0	0	7.62	5.76	99	30	1390	1416	24.6	16.8	M	M	2.60	2.16	184	33	M	1.39	.95
9/ 8/83	34.9	19.3	0	11.18	5.37	85	44	1407	1431	26.7	19.3	M	M	6.26	5.98	188	17	M	2.28	1.49
9/ 9/83	33.2	17.1	0	7.62	4.09	98	53	1422	1444	26.7	21.8	M	M	2.60	1.28	206	58	M	2.47	.75
9/10/83	26.9	9.0	5.08	1.78	3.38	98	26	1430	1453	24.2	17.9	M	M	4.35	3.06	290	44	M	1.46	.71
9/11/83	19.0	5.0	0	.51	2.03	100	51	1432	1457	18.1	15.4	M	M	2.90	1.25	107	61	M	1.16	.42
9/12/83	18.3	6.1	0	1.78	2.83	99	52	1434	1462	18.7	15.3	M	M	3.52	2.80	352	37	M	1.17	.27
9/13/83	20.3	3.9	0	3.05	4.21	100	43	1437	1467	20.3	13.3	M	M	1.54	.81	291	56	M	1.07	.45
9/14/83	21.4	7.4	9.40	0	2.91	99	40	1441	1472	19.1	15.3	M	M	3.30	2.90	153	28	M	1.27	.42
9/15/83	16.5	11.5	4.32	0	1.01	100	88	1445	1476	16.1	14.1	M	M	3.25	1.22	173	64	M	1.47	.05
9/16/83	16.8	8.2	0	2.54	1.61	100	79	1447	1480	16.4	13.8	M	M	2.35	1.69	317	43	M	1.38	.08
9/17/83	25.5	8.6	0	3.56	3.59	100	74	1455	1488	18.1	12.5	M	M	4.40	2.68	145	51	M	1.77	.27
9/18/83	20.1	7.0	.51	2.79	5.21	99	23	1458	1493	18.9	14.5	M	M	3.50	2.94	307	32	M	.96	.71
9/19/83	12.5	6.0	1.27	2.29	.84	100	83	1458	1494	14.6	12.4	M	M	4.07	2.67	18	47	M	1.12	.10
9/20/83	9.0	4.4	0	2.03	2.02	100	64	1458	1494	12.4	10.3	M	M	4.79	4.51	303	20	M	.78	.19
9/21/83	9.9	.9	0	2.79	3.32	97	49	1458	1494	12.8	8.5	M	M	3.67	3.36	282	24	M	.64	.27
9/22/83	11.2	-2.0	0	3.56	4.78	98	43	1458	1494	13.8	8.6	M	M	3.94	3.36	307	31	M	.63	.29
9/23/83	18.0	-3.0	0	3.81	4.90	100	18	1458	1498	13.8	6.9	M	M	3.66	3.40	188	21	M	.50	.70
9/24/83	25.1	8.7	0	7.62	4.70	70	32	1465	1506	16.9	9.6	M	M	4.73	4.47	195	19	M	.89	.98
9/25/83	29.6	7.5	0	3.81	4.75	99	14	1474	1516	19.8	12.3	M	M	1.73	1.21	178	45	M	1.04	1.30
9/26/83	31.5	9.9	0	7.62	4.75	95	11	1484	1526	21.1	13.7	M	M	1.84	.83	190	60	M	.92	1.66
9/27/83	31.6	14.9	0	7.62	4.48	74	17	1497	1538	21.3	15.4	M	M	5.37	5.08	186	19	M	1.08	1.87
9/28/83	30.5	15.9	18.03	0	3.75	97	42	1511	1551	22.3	17.6	M	M	5.37	4.22	194	37	M	1.76	1.15
9/29/83	18.1	13.1	16.00	0	.66	98	96	1516	1557	19.5	16.8	M	M	2.00	.94	216	59	M	1.70	.05
9/30/83	27.1	16.7	0	3.81	3.33	96	54	1528	1569	19.8	16.5	M	M	4.28	3.92	178	24	M	1.88	.66
MONTHLY	MEAN 23.5	MEAN 10.1	TOTAL 58.67	TOTAL 116.85	MEAN 3.71	MN. 96	MN. 47	TOTL 221	TOT 233	MEAN 20.4	MEAN 15.5	MEAN M	MEAN M	MEAN 3.45	MEAN 2.67	MN. 218	MN. 39	MN. M	MEAN 1.45	MEAN .66

L A M B E R T O N

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	26.2	11.9	O	5.33	3.48	96	57	1537	1578	20.2	16.5	M	M	4.78	2.47	238	56	M	1.63	.54
10/ 2/83	20.6	11.0	O	3.30	1.85	99	82	1543	1584	18.3	15.5	M	M	2.69	1.69	336	49	M	1.53	.10
10/ 3/83	14.6	4.8	O	1.78	1.80	99	76	1543	1586	16.0	12.5	M	M	3.99	3.70	325	22	M	1.13	.10
10/ 4/83	14.4	2.6	O		1.64	100	71	1543	1588	13.8	10.6	M	M	1.29	.95	227	42	M	1.02	.11
10/ 5/83	18.7	6.7	O	3.81	4.38	98	39	1546	1592	15.3	10.9	M	M	4.25	3.55	284	33	M	1.01	.45
10/ 6/83	14.7	1.3	O	2.03	2.03	99	62	1546	1595	12.9	9.3	M	M	2.67	1.06	149	63	M	.91	.25
10/ 7/83	19.2	6.4	O	2.03	2.04	92	57	1549	1599	15.1	10.9	M	M	4.58	2.42	302	56	M	1.24	.30
10/ 8/83	15.3	.6	O	2.79	4.26	100	35	1549	1602	13.8	9.5	M	M	3.02	1.76	67	52	M	.73	.36
10/ 9/83	15.4	2.3	O	3.81	2.94	94	45	1549	1605	12.6	9.1	M	M	4.35	4.07	152	21	M	.83	.44
10/10/83	14.8	10.1	17.02	O	.59	97	63	1551	1607	13.0	11.1	M	M	5.13	4.78	182	21	M	1.35	.13
10/11/83	13.6	.7	O	3.81	3.23	97	45	1551	1609	13.0	8.8	M	M	4.73	4.29	320	25	M	.89	.28
10/12/83	5.6	-1.2	2.54	1.27	1.76	100	64	1551	1609	8.9	6.4	M	M	3.88	3.39	309	29	M	.64	.07
10/13/83	4.4	.2	O	1.27	.77	100	95	1551	1609	7.4	6.0	M	M	3.56	3.21	312	25	M	.72	.01
10/14/83	11.7	-1.6	3.05	O	3.80	100	48	1551	1610	9.5	4.6	M	M	2.94	.67	69	71	M	.71	.21
10/15/83	17.2	4.6	O	1.78	1.14	99	83	1552	1613	11.1	6.9	M	M	3.61	1.42	142	63	M	1.15	.10
10/16/83	14.8	1.4	O	1.52	3.39	99	55	1552	1616	10.9	7.8	M	M	4.48	4.12	279	23	M	.87	.21
10/17/83	15.5	-1.3	O	2.54	3.07	100	55	1552	1619	10.3	5.8	M	M	2.71	2.33	188	31	M	.84	.28
10/18/83	12.8	8.5	4.83	O	.58	97	71	1553	1620	10.2	8.8	M	M	3.92	3.33	162	31	M	1.03	.24
10/19/83	9.0	7.6	2.79	O	.19	98	97	1553	1620	9.6	8.9	M	M	5.45	5.36	101	11	M	1.04	.02
10/20/83	8.8	5.5	O	1.52	.58	98	90	1553	1620	9.1	8.1	M	M	4.45	4.33	95	13	M	.98	.04
10/21/83	7.6	5.9	O	O	.62	98	94	1553	1620	8.8	7.9	M	M	2.81	2.30	53	34	M	.95	.03
10/22/83	10.9	4.6	O	1.27	.80	99	92	1553	1620	10.2	8.6	M	M	2.43	2.05	359	32	M	1.06	.05
10/23/83	15.4	.7	O	1.02	3.22	100	70	1553	1623	10.9	6.6	M	M	2.81	1.70	130	51	M	.99	.10
10/24/83	12.7	3.2	O	.76	.90	98	84	1553	1624	9.8	7.4	M	M	3.51	1.72	311	58	M	.98	.07
10/25/83	14.2	-.4	O	2.54	2.19	94	47	1553	1626	8.8	5.4	M	M	4.04	3.57	231	28	M	.72	.34
10/26/83	17.4	4.3	O	2.03	3.25	75	24	1553	1630	10.1	5.9	M	M	2.93	1.71	268	52	M	.67	.61
10/27/83	26.2	6.6	O	5.59	3.27	86	21	1560	1638	11.7	7.2	M	M	5.84	5.70	213	13	M	.89	1.01
10/28/83	15.3	-.3	O	M	3.26	88	42	1560	1641	10.3	6.9	M	M	5.43	4.97	320	24	M	.66	.49
10/29/83	12.1	-4.5	O	5.08	3.01	97	39	1560	1642	8.3	4.6	M	M	2.37	1.97	176	33	M	.54	.30
10/30/83	15.4	2.0	O	3.56	2.96	97	48	1560	1645	9.2	5.0	M	M	3.94	3.78	175	16	M	.82	.29
10/31/83	10.4	6.9	O	M	.59	98	92	1560	1645	9.1	7.6	M	M	3.61	3.37	163	21	M	1.08	.05
MONTHLY	MEAN 14.3	MEAN 3.6	TOTAL 30.23	TOTAL M	MEAN 2.18	MN. 96	MN. 63	TOTL 32	TOT 76	MEAN 11.6	MEAN 8.4	MEAN M	MEAN M	MEAN 3.75	MEAN 2.96	MEAN 214	MN. 35	MN. M	MEAN .96	MEAN .25

## M O R R I S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
4/ 1/83	*	3.3	1.1	O	M	M	M	O	O	1.1	- .6	M	M	M	M	M	M	M	M	M	
4/ 2/83	*	5.0	1.1	O	M	M	M	O	O	1.1	O	M	M	M	M	M	M	M	M	M	
4/ 3/83	*	5.6	- .6	O	M	M	M	O	O	3.3	-1.1	M	M	M	M	M	M	M	M	M	
4/ 4/83	*	8.9	-1.7	O	M	M	M	O	O	6.7	- .6	M	M	M	M	M	M	M	M	M	
4/ 5/83	*	7.8	-1.7	3.05	M	M	M	O	O	4.4	- .6	M	M	M	M	M	M	M	M	M	
4/ 6/83	*	3.3	-1.1	2.79	M	M	M	O	O	1.7	- .6	M	M	M	M	M	M	M	M	M	
4/ 7/83	*	8.3	-1.7	O	M	M	M	O	O	6.7	O	M	M	M	M	M	M	M	M	M	
4/ 8/83	*	11.1	-2.2	O	M	M	M	O	1	7.8	O	M	M	M	M	M	M	M	M	M	
4/ 9/83	*	6.1	- .6	O	M	M	M	O	1	3.3	- .6	M	M	M	M	M	M	M	M	M	
4/10/83	*	12.2	1.1	O	M	M	M	2	2	7.8	1.1	M	M	M	M	M	M	M	M	M	
4/11/83	*	13.9	-2.2	O	M	M	M	4	4	8.9	O	M	M	M	M	M	M	M	M	M	
4/12/83	*	5.0	2.2	5.84	M	M	M	4	4	3.3	- .6	M	M	M	M	M	M	M	M	M	
4/13/83	*	2.8	- .6	1.27	M	M	M	4	4	2.2	-1.7	M	M	M	M	M	M	M	M	M	
4/14/83	*	1.1	-4.4	O	M	M	M	4	4	- .6	- .6	M	M	M	M	M	M	M	M	M	
4/15/83	*	6.1	-6.1	2.79	M	M	M	4	4	2.2	O	M	M	M	M	M	M	M	M	M	
4/16/83	*	4.4	-5.6	O	M	M	M	4	4	3.9	- .6	M	M	M	M	M	M	M	M	M	
4/17/83	*	4.4	-3.3	O	M	M	M	4	4	3.3	O	M	M	M	M	M	M	M	M	M	
4/18/83	*	6.7	-1.7	O	2.29	M	M	4	4	4.4	O	M	M	M	M	M	M	M	M	M	
4/19/83	*	10.0	-3.9	O	4.32	M	M	4	4	7.2	O	M	M	M	M	M	M	M	M	M	
4/20/83	*	14.4	O	O	3.56	M	M	6	6	8.9	- .6	M	M	M	M	M	M	M	M	M	
4/21/83	*	17.2	O	O	3.05	M	M	11	9	11.7	- .6	M	M	M	M	M	M	M	M	M	
4/22/83		20.6	4.8	O	2.03	2.92	73	21	19	15	M	M	M	4.32	3.95	4	24	M	.44	.11	
4/23/83		17.4	1.2	O	11.43	7.05	64	19	24	18	M	M	M	M	4.45	4.07	10	24	M	.41	.81
4/24/83		22.1	- .9	O	4.83	7.10	83	19	30	24	M	M	M	M	2.37	1.03	203	61	M	.54	.94
4/25/83		22.0	4.1	O	8.64	5.71	71	31	38	30	M	M	M	M	6.96	6.73	161	15	M	.73	.90
4/26/83		20.1	3.1	4.06	7.87	5.58	69	31	46	36	12.8	6.2	7.8	5.6	5.45	2.77	295	57	M	.76	.75
4/27/83		16.1	- .1	1.52	5.59	6.59	70	28	49	39	11.8	2.7	7.1	4.2	4.39	3.77	280	30	M	.56	.59
4/28/83		12.7	- .1	O	3.30	4.35	70	51	51	40	10.7	4.7	7.2	5.6	3.93	2.93	323	41	M	.68	.40
4/29/83		13.3	-2.8	O	4.57	6.15	85	34	52	42	11.4	2.0	6.9	3.8	2.86	2.35	290	34	M	.49	.47
4/30/83		17.1	- .1	O	4.32	7.12	77	26	56	45	16.0	3.0	9.4	4.6	2.10	.31	358	75	M	.56	.64
MONTHLY	MEAN 10.6	MEAN - .7	TOTAL 21.32	TOTAL M	MEAN M	MN. M	MN. M	TOTL 56	TOT 45	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M	
5/ 1/83	15.4	4.2	O	8.89	4.74	68	36	61	48	11.6	6.0	8.9	6.5	7.04	6.44	70	24	27	.61	.69	
5/ 2/83	18.3	4.3	O	4.83	6.92	47	24	68	52	16.2	5.6	10.3	6.3	5.05	4.64	21	23	4	.52	.88	
5/ 3/83	21.9	1.2	O	8.13	5.48	74	20	75	58	15.2	5.6	10.5	7.1	4.50	3.84	316	31	28	.53	.96	
5/ 4/83	13.8	- .5	1.27	4.83	6.10	69	33	78	60	14.6	5.3	10.0	7.1	4.49	3.29	337	42	28	.54	.54	
5/ 5/83	22.2	6.2	O	7.37	7.26	72	37	88	66	19.2	7.7	12.8	8.2	4.57	3.90	103	31	39	.89	.83	
5/ 6/83	18.0	7.7	15.49	.25	2.57	71	58	96	70	14.5	9.7	12.4	10.7	7.18	6.75	80	20	72	.95	.51	
5/ 7/83	16.5	3.7	O	11.68	7.72	64	19	102	73	13.9	6.3	10.7	8.1	5.67	5.39	19	18	O	.53	.74	
5/ 8/83	19.0	- .7	O	9.14	7.44	68	31	107	78	15.1	4.5	10.8	7.1	6.07	5.35	150	28	3	.61	.73	
5/ 9/83	19.7	5.7	2.54	12.70	6.81	65	36	116	83	14.5	7.1	11.1	8.3	11.4	11.2	148	10	O	.70	.83	
5/10/83	26.3	8.9	3.56	11.68	6.91	64	30	129	91	18.3	9.0	13.1	9.4	8.73	8.48	160	14	28	.94	1.10	
5/11/83	26.0	9.0	O	4.06	4.82	66	37	142	99	19.4	12.1	14.2	11.5	3.56	1.22	308	66	17	.99	.75	
5/12/83	20.1	4.4	21.08	3.81	2.23	66	56	150	104	15.3	9.2	13.4	11.5	5.62	2.70	173	58	57	.94	.60	
5/13/83	14.6	1.6	O	5.33	7.17	66	46	153	106	13.2	5.9	11.5	8.7	6.64	5.34	259	36	16	.60	.52	
5/14/83	11.7	-1.0	O	7.37	7.07	66	40	154	107	13.3	4.7	10.4	7.6	5.22	4.88	340	21	1	.48	.42	
5/15/83	14.6	1.6	O	4.06	4.86	67	44	158	109	14.5	6.5	10.7	8.0	3.61	2.02	66	54	27	.61	.45	
5/16/83	15.8	- .1	O	5.33	8.00	68	20	161	112	18.7	5.9	13.0	8.2	2.60	2.03	75	38	4	.45	.68	
5/17/83	21.3	2.8	O	6.35	6.20	64	30	169	118	18.5	7.4	13.5	9.5	4.86	3.97	170	35	O	.73	.83	
5/18/83	15.1	3.5	.76	2.03	2.58	68	59	174	120	13.1	8.6	12.9	10.4	4.54	4.14	106	24	45	.79	.47	
5/19/83	16.4	9.8	.76	1.27	2.52	64	56	182	123	14.5	10.1	11.7	10.2	3.38	2.84	7	33	5	.87	.55	
5/20/83	18.6	6.0	O	4.83	6.73	66	36	190	128	19.4	9.3	14.0	10.1	4.07	2.69	308	47	21	.74	.65	
5/21/83	26.0	7.2	.51	8.13	6.81	66	22	203	136	21.8	9.9	15.7	11.2	4.72	4.00	194	32	13	.87	1.20	
5/22/83	16.8	6.7	O	5.84	5.88	65	30	210	139	17.2	11.8	15.4	12.7	5.74	5.39	330	20	28	.71	.69	
5/23/83	25.5	1.6	4.06	6.86	6.29	69	24	219	147	20.8	8.2	15.3	10.8	3.49	2.18	251	50	25	.77	1.09	
5/24/83	20.3	6.3	O	7.87	7.33	67	39	228	152	19.7	12.3	15.6	12.7	4.84	3.57	348	41	30	.87	.75	
5/25/83	17.7	- .1	O	4.57	8.07	71	28	232	156	21.0	8.1	15.8	11.2	2.80	1.77	9	49	O	.57	.74	
5/26/83	24.6	4.4	O	11.43	6.75	63	22	242	163	20.2	10.0	15.7	12.2	5.85	5.55	151	21	O	.66	1.25	
5/27/83	25.6	12.7	O	4.57	7.34	73	45	257	172	24.2	13.7	18.2	13.9	5.31	4.61	107	29	O	1.27	.84	
5/28/83	21.5	8.3	O	7.37	6.36	77	26	267	178	21.3	14.0	17.5	14.9	5.11	3.52	342	45	23	.93	.92	
5/29/83	15.6	6.8	.76	4.32	3.96	75	50	274	181	16.6	12.3	16.7	13.5	6.68	6.04	344	25	25	.83	.41	
5/30/83	17.2	7.2	3.30	5.59	4.89	76	47	282	185	17.0	10.5	14.0	12.1	4.43	4.05	349	24	30	.91	.43	
5/31/83	20.7	7.7	O	2.79	6.01	72	38	292	190	19.6	10.3	15.5	11.7	3.14	2.86	342	24	O	.87	.75	
MONTHLY	MEAN 19.3	MEAN 4.8	TOTAL 54.09	TOTAL 193.28	MEAN 5.93	MN. 68	MN. 36	TOTL 236	TOT 145	MEAN 17.2	MEAN 8.6	MEAN 13.3	MEAN 10.1	MEAN 5.19	MEAN 4.34	MN. 193	MN. 33	MN 19	MEAN .75	MEAN .74	

## M O R R I S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	22.9	5.9	0	6.10	5.41	77	33	302	196	21.2	10.8	16.3	12.4	2.77	2.07	200	41	1	.90	.88
6/ 2/83	23.2	6.4	0	5.33	5.70	78	42	312	203	22.0	12.3	17.1	13.7	3.68	3.41	168	22	11	1.09	.72
6/ 3/83	23.2	11.0	2.54	7.62	7.34	78	21	325	210	22.9	14.7	18.2	14.9	3.95	3.29	323	33	32	.96	1.01
6/ 4/83	18.3	10.4	0	5.59	5.56	74	48	335	214	19.9	14.0	17.5	15.0	5.37	5.16	327	16	24	.99	.54
6/ 5/83	18.0	4.6	0	6.86	7.34	78	29	341	218	21.6	12.3	17.2	14.0	4.31	3.86	339	26	0	.75	.71
6/ 6/83	23.3	3.1	0	9.40	8.12	75	20	350	225	22.5	10.7	17.6	13.4	4.61	4.18	308	25	0	.67	1.18
6/ 7/83	27.1	6.0	0	7.11	8.09	71	18	362	234	27.0	12.6	20.2	14.5	2.50	1.46	271	52	0	.69	1.52
6/ 8/83	25.5	9.6	.76	6.86	6.94	73	32	375	241	25.3	15.5	20.0	16.3	3.56	1.61	311	60	12	1.10	1.08
6/ 9/83	27.5	6.2	0	12.45	8.10	83	21	388	250	28.2	14.5	21.4	16.3	3.22	2.53	118	38	22	.92	1.45
6/10/83	22.3	16.2	0	5.59	5.77	61	38	403	259	21.6	18.3	21.6	18.4	6.23	5.21	170	33	3	1.45	1.69
6/11/83	28.1	16.3	0	2.29	4.85	81	48	420	272	25.3	19.2	21.3	19.2	7.03	6.76	157	16	4	1.72	.94
6/12/83	26.2	17.5	.25	11.18	2.91	82	67	438	283	23.0	18.9	20.5	18.8	7.86	7.60	159	15	17	1.98	.60
6/13/83	24.7	14.6	34.80	7.11	2.80	81	64	453	293	24.5	17.7	20.4	18.8	4.55	6.65	264	65	50	1.67	.62
6/14/83	21.7	13.2	5.59	2.03	3.41	66	55	466	300	20.7	15.7	18.8	16.6	3.86	2.56	314	47	49	1.13	.68
6/15/83	17.5	11.3	0	8.13	5.36	68	55	476	305	18.2	14.2	17.3	15.8	5.08	4.79	305	19	33	1.00	.60
6/16/83	20.0	9.6	0	6.86	7.33	75	48	486	310	22.6	12.6	18.2	14.3	3.29	2.56	341	38	8	1.00	.65
6/17/83	22.9	7.0	0	7.37	8.01	79	44	497	316	24.7	12.3	19.3	14.8	3.72	3.42	115	23	29	1.12	.78
6/18/83	22.4	13.5	0	4.32	4.18	75	64	510	324	21.6	16.1	18.8	16.8	6.00	5.84	115	13	3	1.42	.65
6/19/83	25.5	14.2	1.02	4.83	5.47	77	62	526	334	24.6	15.8	19.7	16.4	6.10	5.81	148	18	32	1.63	.70
6/20/83	28.4	18.3	0	5.59	6.00	73	61	545	348	28.2	18.5	21.9	18.1	4.72	4.41	143	21	29	1.92	.91
6/21/83	28.5	20.3	0	5.08	3.99	75	69	565	362	26.2	21.0	22.0	20.1	6.53	6.21	136	18	11	2.18	.87
6/22/83	27.8	17.1	0	8.38	7.80	74	49	583	374	30.4	21.9	24.6	20.9	4.50	1.86	284	62	0	2.01	1.08
6/23/83	29.3	13.0	0	9.91	8.04	80	42	599	386	31.3	19.1	25.1	20.5	2.99	2.53	117	32	17	1.66	1.24
6/24/83	28.9	20.6	0	6.86	5.74	78	60	620	400	28.6	22.1	24.4	21.8	5.95	5.38	134	25	0	2.06	.94
6/25/83	33.1	19.2	0	8.38	6.87	82	49	641	415	31.2	21.6	25.6	21.7	4.42	3.83	202	30	0	2.31	1.24
6/26/83	26.4	18.5	.51	4.83	3.28	82	55	660	427	26.0	21.9	25.1	22.3	3.01	1.38	360	60	27	1.96	.71
6/27/83	25.2	14.5	0	10.41	8.36	73	51	675	437	28.9	19.2	23.9	20.4	6.07	5.79	72	17	0	1.45	.86
6/28/83	20.1	12.7	8.13	.76	2.57	82	66	687	444	22.4	19.0	23.1	20.0	4.35	4.11	79	19	26	1.42	.46
6/29/83	19.6	14.1	40.13	0	.89	72	61	699	450	19.0	16.7	20.0	17.9	4.45	3.45	122	38	85	1.28	.66
6/30/83	29.0	15.5	0	7.11	6.95	74	53	717	463	26.1	16.5	21.6	17.5	2.73	1.48	251	55	27	1.63	1.10
MONTHLY	MEAN 24.6	MEAN 12.7	TOTAL 93.73	TOTAL 194.34	MEAN 5.77	MN. 76	MN. 47	TOTL 425	TOT 273	MEAN 24.5	MEAN 16.5	MEAN 20.6	MEAN 17.4	MEAN 4.58	MEAN 3.97	MN. 212	MN. 33	MN 18	MEAN 1.40	MEAN .90
7/ 1/83	28.3	16.4	0	4.57	7.26	96	55	735	475	29.4	18.6	23.7	19.2	1.89	.79	171	62	20	2.02	.79
7/ 2/83	27.5	18.1	7.11	5.33	4.15	97	62	753	488	26.3	20.4	23.1	20.9	5.21	4.61	140	28	28	2.45	.47
7/ 3/83	24.5	13.9	17.02	11.68	3.37	97	60	768	497	24.2	18.4	22.5	20.5	3.44	2.35	314	46	40	2.00	.31
7/ 4/83	21.4	13.9	.51	4.32	5.36	96	58	781	505	21.4	16.2	20.6	18.3	4.91	3.85	309	38	16	1.40	.57
7/ 5/83	22.8	8.4	0	5.59	8.24	100	56	792	511	27.3	14.3	22.0	17.0	1.82	.16	322	77	7	1.43	.48
7/ 6/83	30.5	14.0	0	8.38	7.59	97	47	810	523	30.0	17.2	23.8	18.7	4.42	4.15	168	20	0	1.99	.88
7/ 7/83	33.1	19.1	0	7.62	6.78	84	50	832	538	31.5	20.4	25.1	20.9	5.38	5.10	181	19	0	2.11	1.26
7/ 8/83	35.0	19.1	0	4.57	7.65	78	52	855	552	36.1	22.1	28.2	22.3	2.15	1.36	163	49	0	2.48	1.27
7/ 9/83	33.5	20.9	0	10.41	7.74	79	44	877	568	34.9	24.9	28.7	24.8	3.95	3.75	133	19	7	2.39	1.31
7/10/83	35.1	20.3	0	10.92	7.80	79	39	901	583	34.7	24.2	28.7	24.8	4.53	3.92	166	30	0	2.35	1.39
7/11/83	27.1	14.4	0	8.13	7.53	84	38	917	594	31.4	23.8	28.0	24.7	4.95	4.46	304	25	0	1.44	1.13
7/12/83	32.7	12.1	0	8.64	8.04	85	28	935	605	33.7	20.6	27.6	22.7	2.99	2.70	201	25	12	1.54	1.51
7/13/83	36.1	17.4	0	9.65	7.40	80	34	957	618	34.3	22.6	28.3	23.8	4.25	3.88	175	24	0	2.22	1.47
7/14/83	36.0	20.7	0	9.14	7.33	82	41	981	634	35.2	24.6	29.2	25.0	4.11	3.92	170	18	0	2.45	1.41
7/15/83	32.3	21.0	11.43	11.18	6.84	83	46	1003	649	33.8	24.8	28.7	25.4	5.12	4.87	153	18	9	2.35	1.13
7/16/83	28.5	20.0	0	4.32	4.59	80	58	1023	663	28.6	23.7	27.8	24.4	2.99	.72	239	71	36	1.88	.96
7/17/83	25.3	19.1	44.20	9.91	3.48	73	61	1041	676	25.3	21.8	25.1	23.1	3.29	2.44	95	41	24	1.78	.86
7/18/83	29.9	19.4	0	6.10	6.61	66	50	1061	690	29.1	20.6	24.9	21.4	3.28	2.67	131	35	33	1.74	1.26
7/19/83	28.9	18.4	0	6.35	4.60	65	54	1080	704	26.9	21.4	24.3	22.3	3.24	2.16	84	47	48	1.80	1.18
7/20/83	30.6	17.9	0	6.35	6.51	68	58	1100	718	31.2	20.7	25.9	21.8	4.40	3.53	118	36	30	2.14	1.20
7/21/83	33.2	22.2	0	6.60	5.89	71	66	1123	734	34.6	23.6	28.2	23.8	3.18	1.53	312	58	14	2.52	1.16
7/22/83	29.7	19.9	0	4.57	4.72	74	47	1144	749	32.5	24.3	27.4	24.9	2.87	2.59	323	25	3	2.06	.98
7/23/83	26.2	17.2	0	7.11	6.90	78	60	1161	760	32.3	21.9	27.3	23.6	3.06	2.87	333	20	32	1.85	.82
7/24/83	27.9	15.3	0	4.83	6.19	81	50	1178	772	32.9	21.5	27.4	23.3	1.74	1.37	14	38	43	1.77	.84
7/25/83	28.4	15.1	0	7.62	6.89	82	54	1196	784	33.4	21.7	27.8	23.5	2.67	2.38	113	27	30	1.92	.80
7/26/83	30.5	16.7	0	7.87	6.68	81	57	1215	797	32.8	22.7	27.7	23.9	4.26	3.97	163	21	2	2.15	.91
7/27/83	29.5	19.7	.51	4.06	4.80	86	66	1235	812	31.1	23.6	26.9	24.2	3.38	3.17	156	20	25	2.28	.64
7/28/83	30.9	19.9	0	3.30	3.86	84	64	1256	827	31.2	23.7	26.6	24.2	1.97	1.02	224	56	41	2.41	.67
7/29/83	34.4	16.2	28.19	7.87	5.67	84	35	1277	840	33.6	21.9	28.0	23.4	1.92	.74	246	64	59	1.98	1.18
7/30/83	30.5	19.6	.76	7.11	5.27	64	50	1297	855	29.7	22.4	26.1	23.3	2.36	.34	163	75	41	1.76	1.25
7/31/83	25.9	15.7	0	7.11	7.29	73	51	1314	866	28.3	20.0	25.1	22.2	3.82	3.59	327	20	37	1.50	.99
MONTHLY	MEAN 29.9	MEAN 17.5	TOTAL 109.73	TOTAL 221.21	MEAN 6.23	MN. 81	MN. 51	TOTL 597	TOT 403	MEAN 30.9	MEAN 21.6	MEAN 26.3	MEAN 22.7	MEAN 3.47	MEAN 2.74	MN. 197	MN. 37	MN 21	MEAN 2.01	MEAN 1.00

## M O R R I S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.0	13.2	0	7.37	7.23	75	42	1331	877	32.7	18.6	26.7	21.1	1.76	1.02	133	52	32	1.65	1.11
8/ 2/83	32.3	18.1	0	4.06	4.68	75	65	1352	891	30.2	21.6	26.0	22.8	4.25	3.61	151	31	4	2.29	.97
8/ 3/83	32.3	20.4	0	7.87	6.99	79	46	1374	906	34.9	23.4	28.9	23.9	2.21	1.78	358	35	39	2.39	1.13
8/ 4/83	32.7	16.4	0	7.62	6.36	98	59	1394	920	35.8	21.1	29.7	22.2	2.14	1.70	130	34	30	2.51	.61
8/ 5/83	34.0	18.8	0	4.57	6.75	97	49	1416	934	35.8	24.6	30.0	25.6	2.03	1.67	149	34	0	2.53	.97
8/ 6/83	35.9	19.8	0	8.13	6.70	85	41	1439	949	36.3	25.5	30.5	26.3	1.93	1.34	117	45	25	2.45	1.20
8/ 7/83	37.0	19.6	0	11.43	6.82	85	26	1463	964	35.1	25.3	30.1	26.4	3.63	3.25	232	26	1	2.11	1.91
8/ 8/83	28.5	16.1	0	7.62	6.64	85	33	1481	976	34.1	25.1	29.4	26.2	2.94	2.45	18	33	0	1.64	1.30
8/ 9/83	27.4	15.1	0	7.62	4.08	88	50	1497	987	29.1	23.4	28.2	24.9	3.54	3.09	139	29	6	1.80	.86
8/10/83	28.7	17.1	0	8.38	6.19	86	58	1516	1000	31.4	23.9	27.3	24.3	5.07	3.00	326	52	0	2.11	.83
8/11/83	26.6	14.2	0	6.10	6.84	91	51	1532	1010	31.9	21.2	27.3	23.3	2.81	2.03	87	43	10	1.73	.66
8/12/83	29.1	12.8	9.91	8.38	6.59	91	49	1548	1021	30.7	20.8	26.5	23.0	4.20	4.02	165	17	30	1.86	.78
8/13/83	29.5	17.7	0	6.35	6.26	88	48	1568	1035	29.0	22.4	25.9	23.6	2.98	1.32	306	60	32	1.84	1.01
8/14/83	31.4	14.7	0	6.86	6.68	77	34	1586	1047	32.6	19.7	27.2	22.2	1.80	1.24	134	45	34	1.73	1.27
8/15/83	35.1	16.8	0	6.60	6.47	85	30	1608	1061	34.1	21.8	28.3	23.3	2.24	.89	151	63	4	2.05	1.36
8/16/83	25.3	20.2	41.40	7.11	1.43	84	60	1626	1073	27.1	22.5	27.4	22.9	2.45	1.46	80	52	66	1.88	.81
8/17/83	30.4	16.6	.25	5.59	5.99	65	49	1645	1087	28.9	20.2	25.2	21.8	2.06	1.18	318	53	37	1.66	1.17
8/18/83	29.5	20.1	9.14	11.18	4.65	65	53	1665	1102	27.8	21.7	24.7	22.6	3.69	3.18	149	30	12	1.90	1.21
8/19/83	25.3	14.3	10.92	4.57	4.42	67	51	1681	1111	26.1	19.7	24.3	22.4	3.18	2.29	332	43	16	1.55	1.03
8/20/83	27.1	12.7	.25	6.86	5.43	68	44	1696	1121	24.2	17.8	22.4	19.9	3.49	2.92	129	33	35	1.42	1.00
8/21/83	29.4	17.3	0	5.33	5.01	66	55	1715	1135	27.3	19.3	23.7	20.5	2.95	.89	342	68	40	1.69	1.09
8/22/83	26.1	12.5	0	5.33	6.05	70	52	1730	1144	28.5	17.2	24.0	20.0	2.39	1.67	77	44	54	1.46	.90
8/23/83	27.3	15.9	0	3.56	3.25	70	65	1747	1155	25.9	19.1	23.2	20.7	3.93	3.63	123	22	33	1.72	.80
8/24/83	26.9	18.9	0	2.54	3.57	72	67	1766	1168	27.4	20.6	23.7	21.1	3.72	3.51	148	19	17	1.93	.84
8/25/83	33.0	20.4	.76	8.13	5.86	73	62	1788	1184	31.9	21.7	26.3	21.9	4.05	3.30	152	35	34	2.35	1.05
8/26/83	31.8	19.8	0	3.30	5.17	77	65	1809	1199	32.5	22.4	27.1	23.2	2.86	2.18	74	39	18	2.40	.95
8/27/83	30.5	20.2	0	5.08	4.02	79	53	1830	1214	30.0	23.8	26.3	24.1	2.85	2.12	108	41	36	2.26	.89
8/28/83	33.6	18.9	36.58	11.68	4.19	79	49	1852	1228	30.1	22.2	25.8	23.1	3.10	2.43	149	38	42	2.27	.93
8/29/83	31.6	17.2	23.62	3.05	4.65	94	53	1872	1242	27.6	19.9	25.4	20.5	4.59	2.98	141	48	28	1.76	1.10
8/30/83	30.0	15.6	0	5.33	5.99	95	60	1890	1254	28.6	18.2	24.4	20.5	2.00	1.02	28	57	31	2.28	.52
8/31/83	28.4	16.4	0	4.83	5.24	96	65	1908	1267	26.2	19.6	23.7	21.4	2.58	2.32	157	25	59	2.28	.44
MONTHLY	MEAN 30.2	MEAN 17.0	TOTAL 132.83	TOTAL 202.43	MEAN 5.49	MN. 81	MN. 51	TOTL 594	TOT 401	MEAN 30.4	MEAN 21.4	MEAN 26.4	MEAN 22.8	MEAN 3.01	MEAN 2.24	MN. 165	MN. 40	MN 26	MEAN 1.98	MEAN .99
9/ 1/83	32.3	17.0	0	7.87	5.70	94	62	1928	1280	29.3	19.0	24.8	20.8	3.60	3.47	158	15	M	2.56	.59
9/ 2/83	35.7	20.1	3.05	8.89	5.77	95	36	1952	1295	31.1	21.5	26.1	22.3	4.36	4.13	170	18	M	2.59	1.10
9/ 3/83	26.8	18.5	2.54	2.03	2.24	95	66	1970	1308	25.5	21.6	25.3	23.1	1.52	.44	117	68	M	2.33	.39
9/ 4/83	22.0	13.7	10.67	1.78	.96	96	81	1984	1316	21.9	17.9	23.1	20.3	2.27	.38	12	74	M	1.99	.14
9/ 5/83	23.6	10.6	2.79	2.54	3.53	99	76	1996	1323	22.6	15.4	20.4	18.2	2.17	1.04	217	58	M	1.76	.21
9/ 6/83	18.8	11.8	0	4.06	3.04	94	58	2007	1328	17.6	14.5	19.8	17.4	4.82	4.59	282	18	M	1.32	.44
9/ 7/83	26.0	8.0	0	8.13	5.62	97	47	2020	1336	22.0	12.6	19.4	15.7	3.81	3.07	158	36	M	1.54	.63
9/ 8/83	35.4	16.8	0	5.59	4.44	94	44	2041	1350	26.0	16.4	21.9	17.6	6.30	5.12	172	35	M	2.19	1.11
9/ 9/83	24.9	16.9	8.89	5.59	3.19	95	82	2058	1361	24.4	19.4	21.7	19.9	3.14	.98	52	67	M	2.14	.22
9/10/83	20.5	9.9	0	5.59	4.95	94	50	2068	1366	21.1	14.3	21.3	18.1	5.06	4.56	314	25	M	1.41	.45
9/11/83	15.4	5.3	.51	1.52	1.53	98	72	2074	1369	15.6	11.7	18.1	15.4	3.33	2.53	76	40	M	1.18	.15
9/12/83	17.9	7.6	.25	3.56	4.43	96	61	2083	1373	19.1	11.5	17.0	14.2	2.72	2.43	347	26	M	1.15	.26
9/13/83	18.4	8.4	0	2.79	4.04	96	58	2092	1377	20.2	12.8	17.6	14.8	1.87	1.27	357	46	M	1.18	.30
9/14/83	15.7	7.9	4.57	2.03	1.28	97	78	2099	1380	15.0	12.2	16.7	14.5	4.25	3.99	118	20	M	1.23	.17
9/15/83	13.9	11.2	2.03	0	.66	94	86	2107	1382	14.5	12.6	14.7	14.0	4.06	3.06	132	40	M	1.27	.14
9/16/83	17.1	9.6	0	1.02	2.24	97	69	2116	1386	17.1	12.5	15.4	13.7	2.37	.92	25	63	M	1.26	.15
9/17/83	20.5	9.3	0	2.03	1.42	96	87	2126	1391	15.9	11.1	14.8	13.1	5.08	3.46	128	46	M	1.55	.14
9/18/83	17.9	7.5	0	4.57	5.04	94	32	2135	1395	16.9	11.1	15.3	13.3	4.26	3.90	290	23	M	.89	.59
9/19/83	13.4	5.1	1.02	3.30	1.62	93	61	2139	1397	13.7	10.2	14.4	12.8	4.17	3.24	8	38	M	.92	.29
9/20/83	8.9	3.7	0	1.27	1.89	93	73	2141	1397	10.6	7.9	12.9	10.8	5.38	5.23	304	13	M	.68	.16
9/21/83	9.9	2.6	0	2.54	2.98	92	61	2143	1397	11.7	6.6	11.3	9.5	4.71	4.53	306	15	M	.71	.21
9/22/83	9.3	-.7	0	2.54	4.68	98	58	2143	1397	12.7	6.0	11.4	9.1	3.78	3.14	323	33	M	.68	.16
9/23/83	17.8	-2.3	0	6.10	5.04	98	21	2146	1400	14.3	3.9	11.7	8.0	4.66	4.41	168	19	M	.56	.64
9/24/83	24.5	6.2	0	3.56	4.77	92	35	2157	1408	17.9	7.8	14.1	9.9	4.32	3.84	164	27	M	.92	.77
9/25/83	27.2	6.4	0	4.32	4.76	97	29	2170	1416	20.2	9.7	15.7	11.7	2.61	1.91	153	42	M	1.19	.84
9/26/83	29.3	7.7	0	3.56	4.30	95	20	2184	1426	22.4	11.4	17.3	13.1	2.03	.70	86	66	M	1.19	1.01
9/27/83	32.7	12.0	1.78	9.65	4.37	93	12	2202	1437	22.3	13.5	18.0	14.6	5.19	4.67	160	26	M	1.13	1.63
9/28/83	27.4	13.3	0	5.59	3.73	92	47	2218	1447	22.4	16.7	18.7	16.6	5.36	.90	189	74	M	1.74	.59
9/29/83	14.6	11.0	8.38	2.29	1.04	94	86	2226	1450	17.1	14.6	17.8	15.4	3.67	2.81	44	39	M	1.36	.13
9/30/83	25.4	13.7	3.30	1.52	2.30	90	70	2241	1460	19.1	14.6	16.9	15.1	4.71	4.35	154	22	M	1.84	.37
MONTHLY	MEAN 21.4	MEAN 9.6	TOTAL 49.78	TOTAL 115.83	MEAN 3.38	MN. 95	MN. 57	TOTL 333	TOT 193	MEAN 19.3	MEAN 13.0	MEAN 17.8	MEAN 15.1	MEAN 3.85	MEAN 2.97	MN. 173	MN. 38	M	MEAN 1.42	MEAN .47

## M O R R I S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 4.44	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	18.4	10.1	.25	1.78	1.07	95	80	2251	1464	16.7	13.0	16.7	14.7	3.91	1.25	317	67	M	1.40	.66
10/ 2/83	14.1	9.3	.76	1.02	.58	95	82	2258	1466	14.3	12.3	14.7	13.7	3.09	1.94	347	49	M	1.25	.13
10/ 3/83	11.2	4.5	0	.51	1.23	96	85	2262	1467	12.6	8.7	13.8	11.9	3.73	M	M	M	M	1.04	.09
10/ 4/83	14.1	2.2	0	1.27	2.01	96	81	2265	1469	13.0	6.9	11.9	10.0	2.22	M	M	M	M	.98	.12
10/ 5/83	15.4	3.6	0	2.79	3.52	95	64	2270	1471	12.9	7.1	11.9	9.9	4.38	M	M	M	M	.97	.22
10/ 6/83	14.5	-.6	0	2.54	2.41	97	54	2273	1474	11.7	4.5	11.0	8.5	2.69	M	M	M	M	.83	.25
10/ 7/83	13.0	2.4	0	.51	1.18	97	80	2276	1475	11.6	7.4	10.9	10.0	4.32	M	M	M	M	1.02	.11
10/ 8/83	14.4	-1.8	0	2.03	4.14	98	43	2278	1477	13.8	4.5	11.1	8.0	2.23	M	M	M	M	.70	.27
10/ 9/83	14.5	3.4	0	4.83	2.63	91	58	2282	1480	11.5	6.0	10.3	8.5	7.68	M	M	M	M	.87	.32
10/10/83	13.4	9.5	13.46	2.79	.44	94	71	2290	1481	11.5	9.6	11.1	10.1	5.54	M	M	M	M	1.20	.17
10/11/83	12.8	-1.0	0	3.30	4.04	94	40	2291	1483	11.5	5.0	11.1	9.2	4.91	M	M	M	M	.73	.29
10/12/83	6.1	-1.4	.51	1.78	2.56	95	47	2291	1483	7.6	3.5	9.2	6.9	4.00	M	M	M	M	.56	.14
10/13/83	3.9	.4	1.27	.51	1.14	97	88	2291	1483	6.4	4.0	7.2	6.5	4.00	M	M	M	M	.68	.05
10/14/83	11.9	-1.9	7.87	2.54	3.88	98	35	2292	1484	10.5	2.8	8.2	5.6	2.65	M	M	M	M	.64	.26
10/15/83	11.0	5.3	2.03	M	1.06	94	81	2295	1484	9.4	6.1	8.8	7.3	5.45	M	M	M	M	.99	.11
10/16/83	11.4	1.3	0	M	2.01	97	79	2297	1485	9.9	4.5	8.8	7.7	4.73	M	M	M	M	.84	.09
10/17/83	12.9	-2.2	9.91	M	2.58	97	67	2298	1486	9.9	2.7	8.3	5.6	2.76	M	M	M	M	.84	.16
10/18/83	9.6	7.7	10.41	M	.65	95	84	2302	1486	9.2	7.7	8.8	8.1	5.12	M	M	M	M	1.01	.11
10/19/83	9.3	7.2	5.08	M	.43	94	83	2306	1486	8.3	7.4	8.7	8.3	6.37	M	M	M	M	.97	.10
10/20/83	9.4	4.5	0	M	.89	96	91	2309	1486	8.9	6.9	8.6	7.9	4.66	M	M	M	M	.96	.07
10/21/83	10.1	3.9	0	M	1.04	96	82	2311	1486	9.9	6.3	8.8	7.5	2.08	M	M	M	M	.95	.11
10/22/83	13.0	2.1	0	M	1.33	95	80	2314	1488	11.7	6.8	10.0	8.5	1.33	M	M	M	M	1.03	.11
10/23/83	11.8	-.4	0	M	2.99	98	87	2315	1489	10.4	3.9	9.1	6.9	4.40	M	M	M	M	.85	.08
10/24/83	13.1	1.2	0	M	1.00	96	73	2318	1490	9.8	4.4	8.7	7.7	4.19	M	M	M	M	.87	.15
10/25/83	14.7	-.7	0	M	2.43	93	49	2321	1493	8.1	2.5	7.7	5.5	3.60	M	M	M	M	.72	.32
10/26/83	17.0	.5	0	M	3.09	91	33	2325	1496	10.3	2.5	8.0	5.3	2.77	M	M	M	M	.72	.41
10/27/83	27.4	3.0	0	M	3.11	93	20	2336	1505	13.8	4.3	9.9	6.3	3.19	M	M	M	M	.41	.80
10/28/83	11.6	-.9	0	M	3.16	93	47	2337	1506	10.4	4.3	9.4	7.7	5.15	M	M	M	M	.69	.31
10/29/83	11.4	-3.9	0	M	3.13	97	42	2337	1506	8.5	1.9	7.7	5.1	3.32	M	M	M	M	.52	.26
10/30/83	15.2	.1	0	M	2.82	95	61	2340	1509	9.7	2.2	7.5	4.8	5.54	M	M	M	M	.81	.23
10/31/83	9.6	5.0	.51	M	.55	95	79	2343	1509	8.3	5.6	7.8	6.8	6.23	M	M	M	M	.98	.10
MONTHLY	MEAN 12.8	MEAN 2.3	TOTAL 52.06	TOTAL M	MEAN 2.04	MN. 95	MN. 66	TOTL 102	TOT 49	MEAN 10.7	MEAN 5.7	MEAN 9.9	MEAN 8.1	MEAN 4.07	MEAN M	MN. M	MN. M	MN. M	MEAN .87	MEAN .21

# ROSE MOUNT

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83	* 6.1	2.8	6.35		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 2/83	* 8.9	1.1	O		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 3/83	* 3.9	O	O		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 4/83	* 7.2	-2.2	O		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 5/83	* 7.8	-2.2	O		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 6/83	* 6.7	O	14.48		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 7/83	* 5.0	-2.2	.25		M	M	M	M	O	O	M	M	M	M	M	M	M	M	M	M
4/ 8/83	* 11.7	-3.3	O		M	M	M	M	O	1	M	M	M	M	M	M	M	M	M	M
4/ 9/83	* 10.0	O	13.72		M	M	M	M	O	1	M	M	M	M	M	M	M	M	M	M
4/10/83	* 7.8	-6	O		M	M	M	M	O	1	M	M	M	M	M	M	M	M	M	M
4/11/83	* 13.3	-1.1	O		M	M	M	M	O	3	M	M	M	M	M	M	M	M	M	M
4/12/83	* 13.3	-1.1	4.57		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/13/83	* 6.1	1.1	18.29		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/14/83	* 2.2	-2.8	35.05		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/15/83	* 4.4	-7.8	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/16/83	* 4.4	-6.7	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/17/83	* 2.8	O	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/18/83	* 5.0	-8.9	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/19/83	* 7.2	-7.8	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/20/83	* 10.6	-5.0	O		M	M	M	M	O	4	M	M	M	M	M	M	M	M	M	M
4/21/83	* 15.6	-2.2	O		M	M	M	M	O	7	M	M	M	M	M	M	M	M	M	M
4/22/83	* 18.3	2.2	O		M	M	M	M	O	11	M	M	M	M	M	M	M	M	M	M
4/23/83	* 15.6	1.1	O		M	M	M	M	O	14	M	M	M	M	M	M	M	M	M	M
4/24/83	* 20.0	-1.1	O		M	M	M	M	O	19	M	M	M	M	M	M	M	M	M	M
4/25/83	* 21.1	1.7	O		M	M	M	M	2	25	M	M	M	M	M	M	M	M	M	M
4/26/83	* 22.2	10.6	O		M	M	M	M	8	31	M	M	M	M	M	M	M	M	M	M
4/27/83	* 17.2	3.9	O		M	M	M	M	9	35	M	M	M	M	M	M	M	M	M	M
4/28/83	* 17.2	5.6	O		M	M	M	M	10	38	M	M	M	M	M	M	M	M	M	M
4/29/83	* 17.2	.6	O		M	M	M	M	10	42	M	M	M	M	M	M	M	M	M	M
4/30/83	* 15.6	4.4	O		M	M	M	M	10	45	M	M	M	M	M	M	M	M	M	M
MONTHLY	MEAN 10.8	MEAN - .7	TOTAL 92.71	TOTAL M	MEAN M	MN. M	MN. M	TOTL 10	TOT 45	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83	* 15.6	3.9	O		M	M	M	M	10	48	M	M	M	M	M	M	M	M	M	M
5/ 2/83	* 18.3	2.8	33.02		M	M	M	M	11	52	M	M	M	M	M	M	M	M	M	M
5/ 3/83	* 18.9	1.1	O		M	M	M	M	11	56	M	M	M	M	M	M	M	M	M	M
5/ 4/83	* 14.2	5.9	O		M	3.74	M	M	11	58	M	M	M	3.04	M	M	M	M	M	M
5/ 5/83	* 19.6	5.7	O		M	5.07	M	M	13	63	M	M	M	4.25	M	M	M	M	M	M
5/ 6/83	* 14.0	8.7	34.80		M	1.53	M	M	15	65	M	M	M	7.03	M	M	M	M	M	M
5/ 7/83	* 13.8	3.3	45.72		M	1.80	M	M	15	67	M	M	M	8.46	M	M	M	M	M	M
5/ 8/83	* 14.8	9.0	O		M	7.68	M	M	16	69	M	M	M	2.00	M	M	M	M	M	M
5/ 9/83	* 16.2	3.0	O		M	2.35	M	M	16	72	M	M	M	6.00	M	M	M	M	M	M
5/10/83	* 22.8	8.3	O		M	M	M	M	22	79	M	M	M	M	M	M	M	M	M	M
5/11/83	* 25.6	6.7	O		M	M	M	M	28	87	M	M	M	M	M	M	M	M	M	M
5/12/83	* 24.4	12.8	O		M	M	M	M	37	95	M	M	M	M	M	M	M	M	M	M
5/13/83	* 20.6	5.6	17.78		M	M	M	M	40	100	M	M	M	M	M	M	M	M	M	M
5/14/83	* 18.3	5.0	O		M	M	M	M	41	105	M	M	M	M	M	M	M	M	M	M
5/15/83	* 16.7	-6	O		M	M	M	M	41	108	M	M	M	M	M	M	M	M	M	M
5/16/83	* 15.0	3.9	O		M	M	M	M	41	110	M	M	M	M	M	M	M	M	M	M
5/17/83	* 18.9	2.8	O		M	M	M	M	42	115	M	M	M	M	M	M	M	M	M	M
5/18/83	* 18.3	5.0	O		M	M	M	M	44	119	M	M	M	M	M	M	M	M	M	M
5/19/83	* 12.2	9.4	20.57		M	M	M	M	45	120	M	M	M	M	M	M	M	M	M	M
5/20/83	* 18.3	7.2	O		M	M	M	M	48	124	M	M	M	M	M	M	M	M	M	M
5/21/83	* 22.8	6.1	O		M	M	M	M	52	131	M	M	M	M	M	M	M	M	M	M
5/22/83	* 21.7	8.9	O		M	M	M	M	57	137	M	M	M	M	M	M	M	M	M	M
5/23/83	* 23.9	3.3	O		M	M	M	M	61	144	M	M	M	M	M	M	M	M	M	M
5/24/83	* 22.9	11.8	O		M	5.74	M	M	68	151	M	M	M	4.94	1.85	312	64	M	M	M
5/25/83	* 16.9	5.3	O		M	8.05	M	M	69	154	M	M	M	4.10	3.51	353	31	M	M	M
5/26/83	* 21.9	2.4	O		M	7.68	M	M	71	160	M	M	M	2.55	1.89	155	41	M	M	M
5/27/83	* 22.5	10.7	O		M	4.58	M	M	78	167	M	M	M	4.96	4.14	125	33	M	M	M
5/28/83	* 17.7	7.9	7.62		M	3.18	M	M	81	171	17.2	14.0	M	2.88	.92	359	67	M	M	M
5/29/83	* 12.8	7.1	O		M	3.43	M	M	81	172	14.0	11.5	M	5.48	4.85	337	27	M	M	M
5/30/83	* 13.4	8.0	12.19	4.32	M	2.68	M	M	82	174	12.4	10.3	M	5.44	5.15	342	19	M	M	M
5/31/83	* 19.8	7.1	O	4.32	M	6.54	M	M	85	179	17.2	9.8	M	4.05	3.65	339	26	M	M	M
MONTHLY	MEAN 18.5	MEAN 6.1	TOTAL 171.70	TOTAL M	MEAN M	MN. M	MN. M	TOTL 75	TOT 134	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M



# ROSE MOUNT

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	23.9	4.9	0	4.32	5.55	M	M	90	186	19.9	10.9	M	M	2.77	2.28	206	34	M	M	M
6/ 2/83	21.1	11.1	0	8.64	4.18	M	M	96	192	19.0	14.0	M	M	3.93	2.43	176	50	M	M	M
6/ 3/83	20.8	11.7	39.12	8.64	5.17	M	M	102	198	19.4	14.8	M	M	3.23	1.35	299	62	M	M	M
6/ 4/83	19.3	10.1	0	8.64	6.60	M	M	107	203	19.4	13.4	M	M	4.18	3.55	293	31	M	M	M
6/ 5/83	17.1	8.1	0	8.64	3.00	M	M	109	206	17.1	13.7	M	M	3.05	2.64	339	29	M	M	M
6/ 6/83	22.5	5.5	0	8.64	7.99	M	M	113	213	21.0	11.1	M	M	5.00	4.78	288	17	M	M	M
6/ 7/83	24.6	8.1	0	5.33	7.95	M	M	120	220	24.8	13.5	M	M	2.77	1.72	309	50	M	M	M
6/ 8/83	27.8	11.2	0	5.33	6.03	M	M	129	229	24.5	16.4	M	M	3.43	2.27	255	47	M	M	M
6/ 9/83	26.0	10.6	0	5.33	8.12	M	M	137	238	28.0	16.8	M	M	2.42	1.37	2	53	M	M	M
6/10/83	29.2	13.6	0	5.33	6.28	M	M	149	249	26.8	18.6	M	M	4.02	2.99	160	40	M	M	M
6/11/83	29.6	17.4	0	5.33	5.84	M	M	162	263	26.4	20.2	M	M	4.98	4.69	169	20	M	M	M
6/12/83	28.3	20.3	6.35	5.33	3.30	M	M	177	277	23.4	20.8	M	M	6.07	5.84	169	16	M	M	M
6/13/83	28.2	17.5	5.84	5.33	3.06	M	M	189	290	22.2	20.0	M	M	6.34	5.02	177	37	M	M	M
6/14/83	22.9	13.2	12.45	6.35	5.40	M	M	198	298	21.7	18.4	M	M	4.98	2.19	215	61	M	M	M
6/15/83	21.1	12.1	0	6.86	6.62	M	M	204	304	21.9	16.4	M	M	4.96	4.28	264	30	M	M	M
6/16/83	19.2	15.4	0	5.33	5.32	M	M	211	312	20.0	15.9	M	M	3.69	3.29	301	27	M	M	M
6/17/83	23.9	7.4	0	6.60	7.30	M	M	217	319	23.3	14.5	M	M	2.84	2.32	85	35	M	M	M
6/18/83	19.5	14.0	.51	6.60	2.78	M	M	224	325	19.9	17.6	M	M	4.14	3.99	96	16	M	M	M
6/19/83	27.9	14.5	0	6.60	7.08	M	M	235	337	23.9	16.6	M	M	4.17	3.92	128	20	M	M	M
6/20/83	27.1	16.6	1.52	2.54	4.19	M	M	247	348	22.0	18.8	M	M	4.21	3.79	137	25	M	M	M
6/21/83	30.0	18.1	19.81	12.19	3.85	M	M	261	363	22.5	19.3	M	M	3.96	2.39	131	51	M	M	M
6/22/83	30.9	18.4	0	7.87	5.86	M	M	276	377	24.0	20.9	M	M	5.41	4.13	216	39	M	M	M
6/23/83	31.0	15.4	0	8.64	8.12	M	M	289	389	24.7	19.9	M	M	1.89	1.39	41	41	M	M	M
6/24/83	27.0	18.1	7.62	6.86	3.64	M	M	301	402	22.1	20.2	M	M	3.11	2.04	108	48	M	M	M
6/25/83	32.9	18.4	0	6.86	7.61	M	M	317	416	23.9	20.2	M	M	3.57	3.11	208	29	M	M	M
6/26/83	31.8	20.9	0	6.86	5.38	M	M	333	432	24.5	21.4	M	M	2.38	.42	240	73	M	M	M
6/27/83	22.3	15.2	0	2.29	1.57	M	M	342	440	22.8	19.4	M	M	5.68	5.56	52	12	M	M	M
6/28/83	19.1	14.4	1.02	2.79	2.12	M	M	349	447	19.4	18.4	M	M	5.13	4.88	69	18	M	M	M
6/29/83	19.5	15.5	6.86	.51	.98	M	M	356	455	18.4	17.8	M	M	4.19	4.04	110	15	M	M	M
6/30/83	29.5	17.9	4.32	1.52	6.93	M	M	370	468	21.6	18.1	M	M	4.10	3.79	206	22	M	M	M
MONTHLY	MEAN 25.1	MEAN 13.9	TOTAL 105.42	TOTAL 182.10	MEAN 5.26	MN. 75	MN. 45	TOTL 285	TOT 290	MEAN 22.3	MEAN 17.3	MEAN M	MEAN M	MEAN 4.02	MEAN 3.22	MN. 182	MN. 35	MN M	MEAN M	MEAN M
7/ 1/83	30.2	17.9	5.59	6.10	7.10	M	M	384	482	22.4	19.5	M	M	1.93	.83	289	61	M	M	M
7/ 2/83	29.3	16.6	0	6.10	6.32	M	M	397	495	22.0	19.6	M	M	4.68	3.93	156	32	M	M	M
7/ 3/83	26.8	16.9	15.75	6.10	1.37	M	M	409	507	22.4	20.5	M	M	5.01	4.01	211	36	M	M	M
7/ 4/83	22.7	13.7	1.27	6.10	5.73	M	M	417	515	20.5	18.2	M	M	5.92	4.88	275	34	M	M	M
7/ 5/83	21.8	12.2	0	7.87	8.22	M	M	424	522	19.6	17.4	M	M	2.34	1.22	12	56	M	M	M
7/ 6/83	27.7	10.4	0	5.08	7.67	M	M	433	531	20.1	16.4	M	M	3.98	3.82	172	16	M	M	M
7/ 7/83	30.5	17.8	0	10.16	7.23	M	M	447	545	22.0	18.7	M	M	5.56	5.38	193	14	M	M	M
7/ 8/83	33.7	21.2	0	15.24	7.41	M	M	465	561	23.7	20.4	M	M	4.06	3.87	215	18	M	M	M
7/ 9/83	33.5	19.7	0	15.24	7.46	M	M	481	576	24.3	21.4	M	M	2.20	1.90	164	30	M	M	M
7/10/83	33.5	19.8	0	9.65	7.50	M	M	498	591	24.9	22.0	M	M	3.64	3.49	178	16	M	M	M
7/11/83	26.8	16.1	0	9.65	7.50	M	M	509	602	23.9	22.2	M	M	4.19	3.08	276	42	M	M	M
7/12/83	* 31.7	13.3	0	8.64	M	M	M	522	614	M	M	M	M	M	M	M	M	M	M	M
7/13/83	* 35.0	17.2	0	8.89	M	M	M	538	627	M	M	M	M	M	M	M	M	M	M	M
7/14/83	* 35.0	21.1	0	4.57	M	M	M	556	643	M	M	M	M	M	M	M	M	M	M	M
7/15/83	* 35.0	21.1	0	4.57	M	M	M	574	658	M	M	M	M	M	M	M	M	M	M	M
7/16/83	* 31.1	21.1	10.16	4.57	M	M	M	590	674	M	M	M	M	M	M	M	M	M	M	M
7/17/83	* 30.0	18.9	26.42	4.57	M	M	M	605	688	M	M	M	M	M	M	M	M	M	M	M
7/18/83	* 27.2	17.2	0	4.57	M	M	M	617	701	M	M	M	M	M	M	M	M	M	M	M
7/19/83	* 33.3	18.3	0	13.97	M	M	M	633	715	M	M	M	M	M	M	M	M	M	M	M
7/20/83	* 31.7	17.8	27.43	6.86	M	M	M	647	729	M	M	M	M	M	M	M	M	M	M	M
7/21/83	* 33.9	23.3	0	6.86	M	M	M	666	745	M	M	M	M	M	M	M	M	M	M	M
7/22/83	* 33.3	22.2	0	6.86	M	M	M	684	761	M	M	M	M	M	M	M	M	M	M	M
7/23/83	* 35.6	20.6	0	6.86	M	M	M	702	777	M	M	M	M	M	M	M	M	M	M	M
7/24/83	* 27.8	15.6	0	6.86	M	M	M	713	788	M	M	M	M	M	M	M	M	M	M	M
7/25/83	28.0	15.3	0	6.86	7.41	M	M	725	800	26.3	21.8	M	M	1.92	M	M	M	M	M	M
7/26/83	30.3	13.9	0	4.83	6.59	M	M	737	812	24.9	21.3	M	M	2.44	1.95	170	36	M	M	M
7/27/83	24.6	18.5	17.53	4.83	1.70	M	M	749	824	23.6	22.1	M	M	2.10	1.38	164	47	M	M	M
7/28/83	30.1	20.5	0	4.83	4.11	M	M	764	839	24.4	21.1	M	M	1.29	M	M	M	M	M	M
7/29/83	33.8	21.3	0	4.83	7.15	M	M	782	854	27.6	23.2	M	M	1.86	.52	347	69	M	M	M
7/30/83	31.3	19.1	0	4.83	5.15	M	M	797	869	25.7	23.7	M	M	2.24	1.08	236	58	M	M	M
7/31/83	27.5	15.8	0	4.83	7.09	M	M	808	881	24.2	22.0	M	M	3.88	3.47	303	26	M	M	M
MONTHLY	MEAN 30.4	MEAN 17.9	TOTAL 104.15	TOTAL 221.78	MEAN M	MN. M	MN. M	TOTL 438	TOT 412	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

R O S E M O U N T

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.1	15.1	0	4.83	7.29	M	M	821	893	24.9	20.7	M	M	1.89	.68	301	65	M	M	M
8/ 2/83	31.8	14.1	0	8.13	6.46	M	M	834	905	24.5	21.0	M	M	4.13	3.91	169	19	M	M	M
8/ 3/83	33.4	21.9	0	8.13	6.04	M	M	852	921	27.2	23.0	M	M	3.44	.63	240	73	M	M	M
8/ 4/83	29.1	19.1	0	8.13	7.17	M	M	866	935	27.9	23.6	M	M	2.29	2.06	61	26	M	M	M
8/ 5/83	32.3	17.6	0	8.13	6.21	M	M	881	949	27.1	23.3	M	M	1.42	.86	136	51	M	M	M
8/ 6/83	33.7	17.7	0	8.13	6.94	M	M	897	963	27.8	23.7	M	M	2.39	1.00	351	62	M	M	M
8/ 7/83	34.4	15.6	0	8.13	7.04	M	M	911	976	27.2	22.9	M	M	2.86	2.66	227	22	M	M	M
8/ 8/83	29.8	16.4	4.83	8.13	7.02	M	M	925	989	27.1	23.8	M	M	3.31	2.23	2	46	M	M	M
8/ 9/83	28.8	13.4	0	6.10	4.21	M	M	936	1000	24.8	22.4	M	M	1.94	1.40	122	43	M	M	M
8/10/83	30.3	17.7	0	6.10	4.82	M	M	950	1014	24.9	22.3	M	M	4.97	1.55	290	67	M	M	M
8/11/83	24.4	12.0	0	6.10	4.17	M	M	958	1022	23.7	21.5	M	M	3.26	2.86	20	28	M	M	M
8/12/83	27.8	10.8	0	6.10	6.20	M	M	967	1031	24.0	19.8	M	M	2.18	1.83	185	33	M	M	M
8/13/83	29.1	14.0	0	6.10	4.67	M	M	979	1043	24.2	20.9	M	M	2.57	1.95	219	40	M	M	M
8/14/83	32.8	16.1	0	6.10	6.64	M	M	993	1056	26.4	21.3	M	M	1.51	.57	336	64	M	M	M
8/15/83	32.9	15.4	0	6.10	5.70	M	M	1007	1069	26.5	22.3	M	M	2.27	1.12	184	58	M	M	M
8/16/83	32.1	19.1	11.94	2.29	3.49	M	M	1023	1083	25.8	23.6	M	M	2.89	1.84	87	49	M	M	M
8/17/83	28.6	19.1	0	2.29	3.57	M	M	1037	1097	24.8	22.8	M	M	2.22	1.45	332	48	M	M	M
8/18/83	29.5	17.5	2.03	2.29	3.47	M	M	1050	1111	24.5	21.9	M	M	2.68	1.89	151	44	M	M	M
8/19/83	33.2	15.7	0	2.29	5.50	M	M	1065	1123	26.4	23.0	M	M	3.31	1.33	295	63	M	M	M
8/20/83	28.2	13.7	0	2.29	5.55	M	M	1076	1134	24.3	21.3	M	M	2.69	1.91	102	44	M	M	M
8/21/83	23.5	19.8	5.08	2.29	1.34	M	M	1087	1146	22.7	21.8	M	M	2.57	1.59	107	50	M	M	M
8/22/83	27.1	15.2	0	2.29	6.33	M	M	1098	1157	25.0	21.1	M	M	2.94	2.53	27	30	M	M	M
8/23/83	27.4	13.4	0	4.32	4.66	M	M	1109	1167	23.6	20.3	M	M	2.59	2.28	124	28	M	M	M
8/24/83	28.0	17.9	1.02	4.32	3.25	M	M	1122	1180	23.5	20.9	M	M	3.11	2.66	159	31	M	M	M
8/25/83	30.8	19.7	4.57	4.32	5.64	M	M	1137	1195	25.7	21.4	M	M	3.05	2.55	188	33	M	M	M
8/26/83	31.8	20.7	6.60	4.32	5.58	M	M	1153	1211	26.9	22.7	M	M	2.73	1.36	139	57	M	M	M
8/27/83	31.3	20.0	0	4.32	5.18	M	M	1169	1226	27.3	23.8	M	M	1.98	.77	213	63	M	M	M
8/28/83	30.5	18.6	0	4.32	4.99	M	M	1184	1240	26.0	23.1	M	M	2.56	1.87	194	42	M	M	M
8/29/83	33.3	19.6	2.79	4.32	5.18	M	M	1200	1255	26.1	22.1	M	M	4.38	2.63	241	51	M	M	M
8/30/83	27.3	16.5	17.78	3.56	3.92	M	M	1212	1267	25.4	22.4	M	M	2.45	1.43	50	52	M	M	M
8/31/83	28.5	13.9	0	3.56	6.10	M	M	1223	1278	25.8	20.7	M	M	1.73	.83	106	59	M	M	M
MONTHLY	MEAN 30.1	MEAN 16.7	TOTAL 56.64	TOTAL 157.83	MEAN 5.30	MN. 76	MN. 46	TOTL 415	TOT 397	MEAN 25.6	MEAN 22.1	MEAN M	MEAN M	MEAN 2.72	MEAN 1.75	MN. 173	MN. 46	MN M	MEAN M	MEAN M
9/ 1/83	29.4	15.4	0	3.56	5.75	M	M	1236	1290	24.8	20.8	M	M	3.12	2.98	188	17	M	M	M
9/ 2/83	32.7	19.2	0	3.56	5.86	M	M	1251	1305	25.9	21.6	M	M	3.62	3.50	190	15	M	M	M
9/ 3/83	27.2	20.2	0	3.56	2.46	M	M	1265	1319	24.0	21.9	M	M	3.46	3.14	192	25	M	M	M
9/ 4/83	25.3	19.4	0	3.56	1.67	M	M	1277	1331	22.8	21.5	M	M	1.76	.85	184	58	M	M	M
9/ 5/83	23.2	16.9	25.40	3.56	2.25	M	M	1287	1341	22.5	21.0	M	M	2.40	1.12	313	59	M	M	M
9/ 6/83	22.3	10.7	0	5.59	4.72	M	M	1294	1347	21.1	18.0	M	M	4.43	3.94	268	27	M	M	M
9/ 7/83	24.7	10.1	0	5.59	5.89	M	M	1301	1355	21.8	16.3	M	M	2.85	1.84	224	48	M	M	M
9/ 8/83	32.3	14.9	0	5.59	5.41	M	M	1315	1367	23.1	17.7	M	M	6.31	5.94	179	20	M	M	M
9/ 9/83	31.1	21.3	5.59	5.59	5.38	M	M	1331	1383	25.7	21.1	M	M	3.26	1.53	217	59	M	M	M
9/10/83	25.9	10.4	1.27	5.59	2.74	M	M	1339	1391	23.8	18.7	M	M	4.99	3.75	278	40	M	M	M
9/11/83	21.0	6.5	0	5.59	4.56	M	M	1343	1397	20.8	16.2	M	M	2.48	.96	27	63	M	M	M
9/12/83	18.5	7.2	3.30	5.59	4.01	M	M	1346	1401	19.2	16.2	M	M	3.68	3.06	6	33	M	M	M
9/13/83	19.2	5.8	0	2.79	3.96	M	M	1348	1405	18.2	14.5	M	M	1.92	1.34	321	45	M	M	M
9/14/83	17.9	2.9	0	2.79	2.88	M	M	1349	1409	16.2	13.3	M	M	2.44	2.16	121	28	M	M	M
9/15/83	12.2	10.8	46.99	2.79	.28	M	M	1350	1411	15.1	13.4	M	M	3.50	3.34	124	18	M	M	M
9/16/83	14.5	9.2	.76	2.79	1.10	M	M	1352	1413	14.8	13.6	M	M	1.92	1.39	7	42	M	M	M
9/17/83	20.5	7.2	0	2.79	3.68	M	M	1356	1418	16.5	12.5	M	M	3.79	3.26	133	30	M	M	M
9/18/83	19.3	8.7	0	2.79	5.27	M	M	1360	1423	17.6	14.9	M	M	3.91	3.19	306	35	M	M	M
9/19/83	10.6	7.1	15.24	2.79	.35	M	M	1360	1423	15.0	12.0	M	M	3.89	2.67	30	45	M	M	M
9/20/83 *	10.6	6.1	6.35	3.30		M	M	1360	1424	M	M	M	M	M	M	M	M	M	M	M
9/21/83 *	11.1	3.9	1.02	3.30		M	M	1360	1424	M	M	M	M	M	M	M	M	M	M	M
9/22/83 *	10.0	2.2	0	3.30		M	M	1360	1424	M	M	M	M	M	M	M	M	M	M	M
9/23/83 *	15.6	-2.2	0	3.30		M	M	1360	1427	M	M	M	M	M	M	M	M	M	M	M
9/24/83 *	21.7	4.4	0	3.30		M	M	1363	1433	M	M	M	M	M	M	M	M	M	M	M
9/25/83 *	25.6	7.2	0	3.30		M	M	1370	1441	M	M	M	M	M	M	M	M	M	M	M
9/26/83 *	28.3	12.2	0	3.30		M	M	1380	1451	M	M	M	M	M	M	M	M	M	M	M
9/27/83	30.5	13.1	0	3.56	4.59	M	M	1392	1462	19.1	14.5	M	M	4.08	3.64	188	27	M	M	M
9/28/83	29.5	16.5	0	3.56	3.30	M	M	1405	1475	19.3	15.8	M	M	4.50	4.28	176	18	M	M	M
9/29/83	21.7	16.5	0	3.56	1.01	M	M	1414	1485	18.3	17.1	M	M	1.83	.75	143	62	M	M	M
9/30/83	26.9	16.9	3.81	3.56	3.31	M	M	1426	1496	19.3	16.8	M	M	3.97	3.73	173	20	M	M	M
MONTHLY	MEAN 22.0	MEAN 10.7	TOTAL 109.73	TOTAL 113.80	MEAN M	MN. M	MN. M	TOTL 202	TOT 219	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

# R O S E M O U N T

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	27.6	15.4	0	3.56	3.20	M	M	1437	1508	19.2	15.7	M	M	3.89	3.08	204	37	M	M	M
10/ 2/83	27.1	14.3	0	3.56	3.00	M	M	1448	1519	20.1	17.0	M	M	3.44	1.39	223	63	M	M	M
10/ 3/83	15.9	11.7	0	3.56	1.01	M	M	1452	1522	18.5	15.4	M	M	4.20	4.03	321	17	M	M	M
10/ 4/83	17.5	8.8	0	2.29	2.47	M	M	1455	1526	17.2	14.5	M	M	2.05	1.32	9	48	M	M	M
10/ 5/83	20.4	6.9	0	2.29	4.25	M	M	1458	1531	16.2	13.1	M	M	5.12	4.31	277	32	M	M	M
10/ 6/83	15.1	2.3	0	2.29	3.17	M	M	1458	1534	14.2	11.2	M	M	2.91	1.81	247	50	M	M	M
10/ 7/83	16.3	8.0	0	2.29	.77	M	M	1461	1537	13.8	12.4	M	M	3.87	.97	43	70	M	M	M
10/ 8/83 *	16.7	2.2	0	2.29		M	M	1461	1540		M	M	M		M		M	M	M	M
10/ 9/83	14.7	-1.0	0	2.29	4.12	M	M	1461	1543	12.9	8.7	M	M	3.64	3.33	138	24	M	M	M
10/10/83	12.6	8.0	6.10	2.29	.48	M	M	1461	1544	11.4	10.5	M	M	5.74	5.58	162	13	M	M	M
10/11/83 *	13.3	9.4	41.66		M	M	M	1462	1546		M	M	M		M		M	M	M	M
10/12/83 *	10.6	-1.7	0		M	M	M	1462	1546		M	M	M		M		M	M	M	M
10/13/83 *	8.9	-2.8	0		M	M	M	1462	1546		M	M	M		M		M	M	M	M
10/14/83 *	11.7	3.3	0		M	M	M	1462	1547		M	M	M		M		M	M	M	M
10/15/83 *	12.8	3.3	1.02		M	M	M	1462	1548		M	M	M		M		M	M	M	M
10/16/83 *	12.8	5.6	0		M	M	M	1462	1550		M	M	M		M		M	M	M	M
10/17/83 *	15.0	-1.7	0		M	M	M	1462	1552		M	M	M		M		M	M	M	M
10/18/83 *	15.6	5.0	0		M	M	M	1463	1555		M	M	M		M		M	M	M	M
10/19/83 *	13.9	6.1	8.13		M	M	M	1463	1557		M	M	M		M		M	M	M	M
10/20/83 *	10.0	5.6	23.62		M	M	M	1463	1557		M	M	M		M		M	M	M	M
10/21/83 *	11.1	5.0	0		M	M	M	1463	1557		M	M	M		M		M	M	M	M
10/22/83 *	12.8	5.6	0		M	M	M	1463	1559		M	M	M		M		M	M	M	M
10/23/83 *	10.0	1.7	0		M	M	M	1463	1559		M	M	M		M		M	M	M	M
10/24/83 *	10.6	.6	1.27		M	M	M	1463	1559		M	M	M		M		M	M	M	M
10/25/83 *	12.8	.6	0		M	M	M	1463	1561		M	M	M		M		M	M	M	M
10/26/83 *	15.6	1.1	0		M	M	M	1463	1563		M	M	M		M		M	M	M	M
10/27/83	21.3	3.2	0		M	3.23	M	1465	1569	11.0	5.8	M	M	4.73	4.39	208	22	M	M	M
10/28/83 *	21.7	9.4	0		M		M	1470	1575		M	M	M		M		M	M	M	M
10/29/83 *	12.8	-6.1	0		M		M	1470	1576		M	M	M		M		M	M	M	M
10/30/83 *	13.9	-.6	0		M		M	1470	1578		M	M	M		M		M	M	M	M
10/31/83	11.3	4.7	0		M	.81	M	1470	1579	8.3	6.5	M	M	3.71	3.59	158	14	M	M	M
MONTHLY	MEAN 14.9	MEAN 4.3	TOTAL 81.80	TOTAL M	MEAN M	MN. M	MN. M	TOTL 45	TOT 82	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

S T P A U L

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83 *	5.6	3.3	1.52	M	.70	M	M	O	O	2.2	M	M	M	M	M	M	M	M	M	M
4/ 2/83 *	8.3	.6	1.27	M	2.99	M	M	O	O	5.0	M	M	M	M	M	M	M	M	M	M
4/ 3/83 *	5.0	3.3	.25	M	2.22	M	M	O	O	3.3	M	M	M	M	M	M	M	M	M	M
4/ 4/83 *	8.3	-1.1	O	M	5.50	M	M	O	O	7.8	M	M	M	M	M	M	M	M	M	M
4/ 5/83 *	7.8	O	O	M	3.56	M	M	O	O	6.1	M	M	M	M	M	M	M	M	M	M
4/ 6/83 *	7.2	-1.1	7.11	M	1.70	M	M	O	O	1.7	M	M	M	M	M	M	M	M	M	M
4/ 7/83 *	3.9	-2.2	.25	M	2.64	M	M	O	O	2.8	M	M	M	M	M	M	M	M	M	M
4/ 8/83 *	10.6	-1.7	O	M	6.39	M	M	O	O	8.3	M	M	M	M	M	M	M	M	M	M
4/ 9/83 *	9.4	-6	4.57	M	1.34	M	M	O	O	2.2	M	M	M	M	M	M	M	M	M	M
4/10/83 *	7.8	-1.1	O	M	2.35	M	M	O	O	4.4	M	M	M	M	M	M	M	M	M	M
4/11/83 *	12.2	O	O	M	6.35	M	M	O	1	10.0	M	M	M	M	M	M	M	M	M	M
4/12/83 *	12.2	.6	2.54	M	1.35	M	M	O	3	4.4	M	M	M	M	M	M	M	M	M	M
4/13/83 *	3.9	.6	14.48	M	.80	M	M	O	3	3.9	M	M	M	M	M	M	M	M	M	M
4/14/83 *	2.8	-4.4	34.80	M	2.29	M	M	O	3	1.1	M	M	M	M	M	M	M	M	M	M
4/15/83 *	3.9	-6.7	O	M	7.31	M	M	O	3	1.1	M	M	M	M	M	M	M	M	M	M
4/16/83 *	4.4	-2.8	O	M	6.71	M	M	O	3	.6	M	M	M	M	M	M	M	M	M	M
4/17/83 *	2.2	-7.8	O	M	7.14	M	M	O	3	.6	M	M	M	M	M	M	M	M	M	M
4/18/83 *	6.1	-7.2	O	M	6.96	M	M	O	3	.6	M	M	M	M	M	M	M	M	M	M
4/19/83 *	7.8	-5.0	O	M	6.74	M	M	O	3	.6	M	M	M	M	M	M	M	M	M	M
4/20/83 *	12.2	-3.3	O	M	6.58	M	M	O	4	.6	M	M	M	M	M	M	M	M	M	M
4/21/83 *	15.6	.6	O	M	6.86	M	M	O	6	8.9	M	M	M	M	M	M	M	M	M	M
4/22/83 *	18.3	5.0	O	M	4.07	M	M	2	11	11.1	M	M	M	M	M	M	M	M	M	M
4/23/83 *	16.1	3.9	O	M	6.79	M	M	2	14	12.8	M	M	M	M	M	M	M	M	M	M
4/24/83 *	19.4	2.8	O	M	6.85	M	M	3	18	15.0	M	M	M	M	M	M	M	M	M	M
4/25/83 *	21.7	7.8	O	M	6.85	M	M	8	24	16.7	M	M	M	M	M	M	M	M	M	M
4/26/83 *	21.7	11.7	O	M	4.59	M	M	14	31	17.2	M	M	M	M	M	M	M	M	M	M
4/27/83 *	20.0	5.6	O	M	4.64	M	M	17	36	16.7	M	M	M	M	M	M	M	M	M	M
4/28/83 *	17.2	6.7	6.35	5.08	7.16	M	M	19	39	15.0	M	M	M	M	M	M	M	M	M	M
4/29/83 *	13.3	2.2	3.30	3.05	3.72	M	M	19	41	14.4	M	M	M	M	M	M	M	M	M	M
4/30/83 *	15.0	5.6	O	3.56	7.03	M	M	19	44	17.2	M	M	M	M	M	M	M	M	M	M
MONTHLY	MEAN 10.7	MEAN .5	TOTAL 76.44	TOTAL M	MEAN 4.67	MN. M	MN. M	TOTL 19	TOT 44	MEAN 7.1	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83 *	15.6	5.0	O	6.86	6.96	M	M	19	46	14.4	M	M	M	M	M	M	M	M	M	M
5/ 2/83 *	16.7	2.8	15.49	3.81	6.09	M	M	19	50	14.4	M	M	M	M	M	M	M	M	M	M
5/ 3/83 *	18.9	3.9	O	5.84	6.57	M	M	21	54	17.2	M	M	M	M	M	M	M	M	M	M
5/ 4/83 *	19.4	3.3	O	7.37	7.47	M	M	22	59	16.7	M	M	M	M	M	M	M	M	M	M
5/ 5/83 *	20.0	7.2	.51	2.79	6.13	M	M	26	64	17.8	M	M	M	M	M	M	M	M	M	M
5/ 6/83 *	20.0	11.7	6.10	3.05	1.80	M	M	32	70	13.3	M	M	M	M	M	M	M	M	M	M
5/ 7/83 *	13.9	5.0	17.78	6.35	5.95	M	M	32	72	13.9	M	M	M	M	M	M	M	M	M	M
5/ 8/83 *	14.4	O	O	6.10	8.10	M	M	32	74	16.7	M	M	M	M	M	M	M	M	M	M
5/ 9/83 *	16.7	5.6	O	7.87	7.87	M	M	33	77	16.7	M	M	M	M	M	M	M	M	M	M
5/10/83 *	22.8	7.8	O	8.89	7.35	M	M	38	84	18.9	M	M	M	M	M	M	M	M	M	M
5/11/83 *	25.0	10.0	O	8.64	7.26	M	M	46	91	20.6	M	M	M	M	M	M	M	M	M	M
5/12/83 *	25.0	13.3	1.27	5.33	1.87	M	M	55	100	17.2	M	M	M	M	M	M	M	M	M	M
5/13/83 *	20.0	6.1	23.88	7.11	5.38	M	M	58	105	18.3	M	M	M	M	M	M	M	M	M	M
5/14/83 *	18.3	4.4	O	5.33	4.50	M	M	59	109	13.3	M	M	M	M	M	M	M	M	M	M
5/15/83 *	16.1	1.1	O	7.11	5.72	M	M	59	113	16.7	M	M	M	M	M	M	M	M	M	M
5/16/83 *	13.9	4.4	O	3.81	6.94	M	M	59	114	18.3	M	M	M	M	M	M	M	M	M	M
5/17/83 *	18.9	3.9	O	5.33	6.65	M	M	61	119	20.0	M	M	M	M	M	M	M	M	M	M
5/18/83 *	18.3	7.8	.51	3.30	1.84	M	M	64	123	13.3	M	M	M	M	M	M	M	M	M	M
5/19/83 *	13.3	8.9	8.13	O	.76	M	M	65	125	12.8	M	M	M	M	M	M	M	M	M	M
5/20/83 *	17.2	7.8	.51	1.52	4.06	M	M	67	128	16.7	M	M	M	M	M	M	M	M	M	M
5/21/83 *	22.2	7.2	O	4.57	7.69	M	M	72	134	21.1	M	M	M	M	M	M	M	M	M	M
5/22/83 *	22.8	12.2	O	8.13	5.75	M	M	79	142	20.6	M	M	M	M	M	M	M	M	M	M
5/23/83 *	23.3	5.6	O	6.60	7.88	M	M	84	149	23.9	M	M	M	M	M	M	M	M	M	M
5/24/83 *	23.3	15.0	O	7.62	5.54	M	M	93	158	23.9	M	M	M	M	M	M	M	M	M	M
5/25/83 *	21.7	5.0	O	8.89	8.48	M	M	96	164	23.3	M	M	M	M	M	M	M	M	M	M
5/26/83 *	21.1	3.9	O	8.13	8.15	M	M	99	169	24.4	M	M	M	M	M	M	M	M	M	M
5/27/83 *	21.1	12.2	2.03	6.10	4.54	M	M	106	176	21.1	M	M	M	M	M	M	M	M	M	M
5/28/83 *	18.3	8.9	6.35	2.29	2.92	M	M	109	180	17.8	M	M	M	M	M	M	M	M	M	M
5/29/83 *	17.8	7.2	5.33	4.32	3.50	M	M	112	184	15.0	M	M	M	M	M	M	M	M	M	M
5/30/83 *	12.2	7.2	2.29	2.03	2.58	M	M	112	185	13.3	M	M	M	M	M	M	M	M	M	M
5/31/83 *	19.4	6.7	4.57	3.05	6.29	M	M	115	190	17.8	M	M	M	M	M	M	M	M	M	M
MONTHLY	MEAN 19.0	MEAN 6.8	TOTAL 94.75	TOTAL 168.14	MEAN 5.57	MN. M	MN. M	TOTL 96	TOT 146	MEAN 17.7	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M

S T P A U L

DATE		MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
6/ 1/83	*	21.7	7.2		0	4.57	5.64	M	M	119	196	19.4	M	M	M	M	M	M	M	M	M	
6/ 2/83	*	21.1	12.2		0	4.83	4.57	M	M	126	202	20.6	M	M	M	M	M	M	M	M	M	
6/ 3/83	*	21.1	11.1	35.81		5.33	5.56	M	M	132	208	21.7	M	M	M	M	M	M	M	M	M	
6/ 4/83	*	20.6	11.7			0	5.84	6.79	M	M	138	214	20.0	M	M	M	M	M	M	M	M	M
6/ 5/83	*	20.0	9.4			0	4.06	3.88	M	M	143	219	18.3	M	M	M	M	M	M	M	M	M
6/ 6/83	*	22.2	6.1		0	7.87	7.81	M	M	147	226	22.8	M	M	M	M	M	M	M	M	M	
6/ 7/83	*	24.4	9.4		0	8.89	8.36	M	M	154	233	26.7	M	M	M	M	M	M	M	M	M	
6/ 8/83	*	27.2	13.3		0	7.62	6.75	M	M	164	243	27.2	M	M	M	M	M	M	M	M	M	
6/ 9/83	*	27.8	11.1		0	7.37	8.47	M	M	174	252	30.6	M	M	M	M	M	M	M	M	M	
6/10/83	*	30.0	13.9		.25	7.87	6.82	M	M	186	264	31.1	M	M	M	M	M	M	M	M	M	
6/11/83	*	30.6	17.2		1.27	9.40	6.31	M	M	199	278	28.9	M	M	M	M	M	M	M	M	M	
6/12/83	*	28.9	19.4		.25	5.84	3.15	M	M	214	292	26.1	M	M	M	M	M	M	M	M	M	
6/13/83	*	28.3	20.0		9.40	7.11	3.03	M	M	228	306	24.4	M	M	M	M	M	M	M	M	M	
6/14/83	*	26.1	15.6		23.62	8.38	3.44	M	M	239	317	22.2	M	M	M	M	M	M	M	M	M	
6/15/83	*	26.1	13.9		0	5.59	6.28	M	M	249	327	21.1	M	M	M	M	M	M	M	M	M	
6/16/83	*	18.3	9.4		0	4.57	3.75	M	M	252	331	18.3	M	M	M	M	M	M	M	M	M	
6/17/83	*	22.2	7.8		0	4.83	7.94	M	M	257	337	26.1	M	M	M	M	M	M	M	M	M	
6/18/83	*	22.2	13.9		.25	5.33	3.14	M	M	266	346	22.2	M	M	M	M	M	M	M	M	M	
6/19/83	*	27.2	15.6		0	6.10	7.28	M	M	277	357	28.3	M	M	M	M	M	M	M	M	M	
6/20/83	*	27.2	16.7		1.52	6.60	4.78	M	M	289	369	22.8	M	M	M	M	M	M	M	M	M	
6/21/83	*	27.2	18.3		11.43	6.60	2.06	M	M	302	382	23.3	M	M	M	M	M	M	M	M	M	
6/22/83	*	30.0	23.3		0	5.59	5.24	M	M	318	398	26.1	M	M	M	M	M	M	M	M	M	
6/23/83	*	31.1	16.7		0	6.35	8.04	M	M	332	412	32.2	M	M	M	M	M	M	M	M	M	
6/24/83	*	28.9	17.8		5.08	6.60	4.07	M	M	346	425	26.1	M	M	M	M	M	M	M	M	M	
6/25/83	*	32.8	19.4		0	4.57	7.82	M	M	362	440	31.7	M	M	M	M	M	M	M	M	M	
6/26/83	*	32.8	20.6		0	8.38	6.22	M	M	378	455	33.3	M	M	M	M	M	M	M	M	M	
6/27/83	*	32.8	20.6		10.67	4.06	1.00	M	M	395	470	21.7	M	M	M	M	M	M	M	M	M	
6/28/83	*	27.8	13.3		.51	2.03	2.19	M	M	406	481	20.6	M	M	M	M	M	M	M	M	M	
6/29/83	*	20.0	13.3		5.33	2.03	1.10	M	M	412	487	19.4	M	M	M	M	M	M	M	M	M	
6/30/83	*	30.6	17.8		6.35	4.06	6.92	M	M	426	501	26.1	M	M	M	M	M	M	M	M	M	
MONTHLY		MEAN 26.2	MEAN 14.5	TOTAL 111.74	TOTAL 178.27	MEAN 5.28	MN. M	MN. M	TOTL 312	TOT 312	MEAN 24.6	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M	
7/ 1/83		29.1	20.4		.76	5.59	2.87	95	51	441	516	31.3	23.8	25.0	21.6	1.44	1.04	340	43	M	M	
7/ 2/83		30.0	18.8		0	7.37	6.27	97	56	456	531	31.2	20.7	25.4	21.7	4.64	4.14	155	27	M	M	
7/ 3/83		28.3	17.2	40.89	10.67	1.77	97	89	468	543	27.0	20.4	24.9	22.6	4.25	3.32	205	38	M	M	M	
7/ 4/83		23.7	15.2	1.27	5.84	5.53	96	69	478	553	23.4	17.9	22.6	20.2	4.80	3.94	282	34	M	M	M	
7/ 5/83		22.7	12.2		0	4.32	8.25	96	40	485	560	28.8	15.4	23.2	18.4	1.96	1.12	8	53	M	M	
7/ 6/83		28.4	13.5		0	7.37	7.74	90	59	496	571	31.1	16.6	24.8	19.3	4.30	4.10	172	18	M	M	
7/ 7/83		31.5	19.8		0	9.40	7.15	94	50	512	586	32.4	20.7	26.4	21.9	5.30	5.12	191	15	M	M	
7/ 8/83		34.6	22.8		0	9.14	7.38	91	48	530	602	36.3	22.8	29.0	23.6	3.31	2.64	218	36	M	M	
7/ 9/83		33.4	24.1		0	9.14	7.47	84	39	549	619	37.6	24.9	30.4	25.7	2.70	2.18	167	36	M	M	
7/10/83		34.1	22.0		0	11.18	7.52	94	38	567	635	36.9	24.8	30.6	26.1	4.11	3.92	176	18	M	M	
7/11/83		27.3	18.8		0	11.43	7.58	80	40	580	648	35.6	25.8	30.1	26.8	3.97	2.98	289	41	M	M	
7/12/83		32.0	16.5		0	8.89	7.94	96	21	595	662	35.9	21.9	29.9	24.8	2.26	1.75	227	38	M	M	
7/13/83		35.8	19.5		0	9.14	6.98	89	39	612	677	35.6	23.6	30.0	25.6	3.92	3.59	185	24	M	M	
7/14/83		34.7	24.8		0	11.18	7.33	78	41	632	694	37.2	25.6	31.2	26.7	3.80	3.57	196	20	M	M	
7/15/83		31.5	23.8		0	8.89	5.01	94	54	650	711	34.0	25.5	30.2	27.4	3.57	3.13	174	28	M	M	
7/16/83		30.2	21.9	12.95	6.35	3.94	97	75	666	727	30.1	23.7	27.8	25.5	2.46	1.71	196	45	M	M	M	
7/17/83		30.3	19.5	7.11	3.81	3.82	96	70	681	742	29.7	22.1	26.1	24.3	1.54	.31	108	72	M	M	M	
7/18/83		27.8	18.9	12.95	2.79	3.49	97	80	694	755	27.7	20.8	24.9	22.7	2.14	1.54	117	43	M	M	M	
7/19/83		31.7	19.3	16.00	12.70	5.23	96	70	709	770	31.2	21.2	26.0	22.9	2.81	1.13	117	62	M	M	M	
7/20/83		31.9	17.9		0	3.56	6.53	98	59	724	783	30.0	20.5	26.2	22.7	2.49	1.53	120	50	M	M	
7/21/83		35.3	24.3		0	7.37	6.29	93	60	744	801	34.8	23.8	29.2	24.6	2.94	1.50	255	57	M	M	
7/22/83		32.9	21.3		0	6.35	5.91	94	66	761	816	36.8	24.8	30.3	26.1	2.26	2.02	339	26	M	M	
7/23/83		28.7	20.9		0	11.43	7.24	92	45	776	831	35.9	24.8	30.3	26.4	3.26	2.99	326	23	M	M	
7/24/83		28.2	17.8		0	6.35	6.46	95	56	789	844	33.6	22.7	29.3	25.6	1.95	1.50	15	39	M	M	
7/25/83		27.9	16.7		0	6.35	7.34	96	43	801	856	34.9	22.3	29.4	25.2	1.83	1.58	54	30	M	M	
7/26/83		30.2	17.3		0	4.83	6.20	95	46	815	870	33.1	22.2	29.0	25.0	2.96	2.58	172	29	M	M	
7/27/83		25.7	21.0	10.41	5.08	1.88	95	70	828	883	26.6	23.0	28.1	25.1	2.25	1.85	171	34	M	M	M	
7/28/83		31.5	20.1		0	1.52	4.53	100	58	844	898	30.2	22.3	26.6	23.8	1.21	.56	146	59	M	M	
7/29/83		34.6	22.1		0	6.10	6.98	93	27	863	914	35.9	22.9	29.4	24.4	1.36	1.00	337	42	M	M	
7/30/83		32.5	20.6	3.05	6.35	4.82	94	41	879	930	32.7	24.3	28.7	26.0	1.84	.14	276	78	M	M	M	
7/31/83		26.5	19.8		0	5.08	6.27	94	48	892	943	30.0	21.9	27.0	24.4	3.83	3.48	312	25	M	M	
MONTHLY		MEAN 30.4	MEAN 19.6	TOTAL 105.39	TOTAL 225.57	MEAN 5.93	MN. 93	MN. 53	TOTL 466	TOT 442	MEAN 32.5	MEAN 22.4	MEAN 27.8	MEAN 24.1	MEAN 2.95	MEAN 2.32	MN. 195	MN. 38	MN M	MEAN M	MEAN M	

S T P A U L

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.3	16.8	0	5.59	7.03	94	39	906	956	34.4	20.5	28.4	23.4	1.97	1.06	332	55	M	M	M
8/ 2/83	32.3	19.1	0	8.38	6.41	90	51	922	971	33.4	22.1	28.6	24.7	4.47	4.22	167	19	M	M	M
8/ 3/83	32.7	24.0	6.35	6.86	5.68	93	67	940	988	32.0	25.4	28.7	26.4	2.37	.36	42	75	M	M	M
8/ 4/83	30.0	20.9	0	7.11	7.10	93	61	955	1003	32.4	23.4	28.7	25.5	2.24	2.06	68	23	M	M	M
8/ 5/83	32.8	20.5	0	6.10	6.39	94	51	972	1018	33.1	23.9	29.1	25.8	1.55	1.02	134	47	M	M	M
8/ 6/83	33.7	21.1	0	7.62	6.86	92	28	989	1034	34.1	25.3	29.8	26.6	1.81	.85	4	59	M	M	M
8/ 7/83	35.7	19.8	0	8.38	6.93	92	38	1007	1049	33.8	23.8	29.7	26.2	1.71	2.40	235	28	M	M	M
8/ 8/83	29.1	19.8	0	10.41	6.89	77	27	1022	1063	32.4	25.2	29.2	26.9	2.93	2.09	353	43	M	M	M
8/ 9/83	28.1	16.5	0	6.10	3.87	95	39	1034	1076	28.3	23.2	28.3	25.7	2.47	1.86	129	40	M	M	M
8/10/83	28.8	18.5	.76	5.59	4.51	89	67	1047	1089	29.2	23.1	26.8	24.9	4.12	1.12	308	69	M	M	M
8/11/83	24.7	16.5	0	5.59	4.50	94	58	1058	1100	28.3	21.3	26.2	23.8	2.84	2.39	27	32	M	M	M
8/12/83	28.0	14.3	0	6.10	6.33	96	48	1069	1111	30.3	19.7	26.4	22.9	2.62	2.21	180	32	M	M	M
8/13/83	29.9	18.1	0	5.84	4.25	85	46	1083	1125	29.3	21.6	26.3	23.9	2.55	1.58	226	50	M	M	M
8/14/83	32.6	17.4	0	4.06	6.51	84	27	1098	1139	32.4	21.7	28.2	23.9	1.39	.88	360	49	M	M	M
8/15/83	34.3	19.1	0	5.59	5.23	82	36	1115	1153	33.3	22.8	28.1	25.0	2.28	1.53	161	47	M	M	M
8/16/83	32.0	20.8	37.34	17.02	3.08	84	43	1131	1169	29.7	22.9	27.6	25.2	2.81	1.90	107	46	M	M	M
8/17/83	28.5	19.5	2.29	2.03	3.00	84	57	1145	1183	27.1	21.4	25.3	23.6	1.50	1.22	332	35	M	M	M
8/18/83	29.1	20.6	1.02	2.03	3.27	M	M	1160	1198	26.5	21.6	24.9	23.2	2.73	2.27	152	33	M	M	M
8/19/83	31.6	18.8	0	7.11	6.14	M	M	1175	1212	34.0	22.9	28.1	24.0	3.14	1.79	310	53	M	M	M
8/20/83	27.4	15.7	6.35	6.35	4.81	M	M	1187	1224	27.5	21.1	27.1	23.6	2.40	1.75	124	42	M	M	M
8/21/83	25.6	21.0	.76	3.05	1.62	M	M	1200	1237	24.5	21.7	24.4	23.2	2.46	1.52	127	50	M	M	M
8/22/83	26.6	17.8	3.81	4.06	6.50	M	M	1212	1249	28.9	20.0	25.4	22.3	2.48	2.09	31	32	M	M	M
8/23/83	27.5	15.9	0	5.33	4.81	M	M	1224	1261	28.7	19.1	25.4	22.0	3.15	2.95	128	20	M	M	M
8/24/83	28.5	19.7	.76	3.56	3.38	M	M	1238	1275	28.8	21.3	25.5	23.1	2.88	2.55	150	27	M	M	M
8/25/83	31.3	20.9	1.78	3.56	5.54	M	M	1254	1290	32.1	21.8	27.3	23.3	2.58	2.24	185	30	M	M	M
8/26/83	33.5	21.7	16.26	9.14	5.30	M	M	1272	1306	31.6	23.6	27.6	24.9	2.36	1.29	130	54	M	M	M
8/27/83	32.3	22.7	0	4.83	4.45	M	M	1289	1323	32.5	24.1	28.1	25.2	1.80	.37	213	72	M	M	M
8/28/83	30.9	20.5	0	5.59	5.05	M	M	1305	1338	31.0	22.6	27.9	24.9	2.67	1.84	192	45	M	M	M
8/29/83	34.4	20.6	.76	7.11	4.99	M	M	1323	1353	33.1	22.2	28.8	24.7	3.57	2.14	232	51	M	M	M
8/30/83	28.1	19.4	18.29	9.65	4.64	M	M	1336	1367	28.7	22.6	27.9	25.0	2.09	1.16	72	54	M	M	M
8/31/83	28.8	16.2	0	4.57	5.97	M	M	1349	1379	30.9	19.6	26.8	22.9	1.34	.95	93	44	M	M	M
MONTHLY	MEAN 30.3	MEAN 19.2	TOTAL 96.53	TOTAL 194.31	MEAN 5.19	MN. M	MN. M	TOTL 457	TOT 436	MEAN 30.7	MEAN 22.3	MEAN 27.4	MEAN 24.4	MEAN 2.49	MEAN 1.73	MN. 159	MN. 44	MN. M	MEAN M	MEAN M
9/ 1/83	30.3	17.3	0	6.10	5.69	M	M	1363	1393	31.9	20.3	27.5	23.2	3.01	2.74	185	24	M	M	M
9/ 2/83	33.7	20.9	0	6.35	5.73	M	M	1380	1408	33.9	22.8	29.0	24.8	3.33	3.16	188	19	M	M	M
9/ 3/83	27.7	21.4	0	5.84	1.92	M	M	1394	1423	26.9	23.2	28.2	25.3	2.26	1.53	197	46	M	M	M
9/ 4/83	24.4	19.7	1.78	1.02	1.11	M	M	1407	1435	23.7	21.7	25.3	23.6	1.48	.33	204	71	M	M	M
9/ 5/83	24.6	17.7	16.26	1.52	2.55	M	M	1418	1446	24.8	20.3	23.6	22.3	1.93	1.11	334	53	M	M	M
9/ 6/83	22.7	14.5	0	6.60	4.21	M	M	1426	1455	23.6	17.6	22.8	21.1	4.08	3.73	283	24	M	M	M
9/ 7/83	25.6	12.6	0	3.81	5.68	M	M	1435	1464	27.4	15.6	23.6	19.1	2.76	1.53	223	54	M	M	M
9/ 8/83	33.4	18.0	0	6.10	5.16	M	M	1451	1478	29.6	18.7	25.4	21.0	5.62	4.89	177	29	M	M	M
9/ 9/83	29.8	21.3	11.43	5.84	4.65	M	M	1467	1493	29.0	22.2	25.8	23.6	2.59	.59	234	71	M	M	M
9/10/83	27.4	13.4	.51	6.35	3.03	M	M	1477	1504	23.8	17.8	25.0	21.9	4.36	3.28	290	40	M	M	M
9/11/83	21.0	8.9	0	3.81	3.90	M	M	1482	1509	23.7	14.4	21.9	19.0	2.35	1.10	35	59	M	M	M
9/12/83	18.6	9.2	7.62	3.81	3.84	M	M	1486	1514	20.2	14.5	20.6	18.3	2.67	2.26	5	32	M	M	M
9/13/83	18.9	8.7	0	2.29	3.82	M	M	1490	1518	19.7	13.4	19.1	16.9	1.32	.98	334	41	M	M	M
9/14/83	18.7	6.7	0	3.05	3.45	M	M	1492	1522	19.2	11.3	18.3	15.8	2.83	2.58	133	24	M	M	M
9/15/83	12.6	11.4	32.77	4.06	.28	M	M	1494	1524	14.8	13.2	17.5	15.4	4.54	4.41	132	13	M	M	M
9/16/83	15.2	11.6	1.02	2.29	1.22	M	M	1498	1528	16.0	13.1	16.1	15.2	1.38	1.07	23	39	M	M	M
9/17/83	19.8	9.6	0	2.54	3.64	M	M	1502	1533	18.3	12.2	17.0	14.8	3.99	3.79	140	18	M	M	M
9/18/83	19.4	10.3	4.83	6.10	5.48	M	M	1507	1537	20.2	14.3	18.3	16.3	3.45	3.01	307	29	M	M	M
9/19/83	12.9	9.3	4.06	1.02	.69	M	M	1508	1539	14.3	11.5	17.3	14.5	3.08	1.97	43	49	M	M	M
9/20/83	10.5	6.8	1.52	2.03	2.02	M	M	1508	1539	12.4	9.1	14.5	12.9	4.97	4.74	310	17	M	M	M
9/21/83	10.9	5.3	.51	2.54	1.76	M	M	1508	1540	10.5	7.7	12.9	11.5	4.35	4.17	297	16	M	M	M
9/22/83	9.6	1.6	0	2.29	1.98	M	M	1508	1540	10.4	6.7	11.7	10.6	4.07	3.91	312	16	M	M	M
9/23/83	15.5	.2	0	2.79	5.10	M	M	1508	1542	16.2	4.2	13.3	9.0	2.86	2.42	195	32	M	M	M
9/24/83	21.8	7.0	0	4.57	4.69	M	M	1513	1548	19.0	7.8	15.4	11.1	4.09	3.86	178	19	M	M	M
9/25/83	25.3	8.4	0	2.79	4.70	M	M	1520	1556	22.5	11.2	17.9	13.6	1.57	1.20	156	39	M	M	M
9/26/83	28.3	12.6	0	3.30	4.64	M	M	1530	1566	24.1	13.2	19.5	15.4	1.88	1.50	182	36	M	M	M
9/27/83	30.4	15.1	0	5.08	4.52	M	M	1543	1579	25.1	15.1	20.6	16.9	3.81	3.50	174	23	M	M	M
9/28/83	28.5	17.4	0	5.59	3.59	M	M	1556	1592	23.4	16.9	20.9	18.2	4.10	3.87	173	19	M	M	M
9/29/83	22.4	16.5	3.30	2.79	.98	M	M	1565	1601	20.0	18.1	20.5	19.1	1.78	.26	82	75	M	M	M
9/30/83	27.2	17.6	3.81	2.29	2.78	M	M	1578	1614	21.8	17.0	19.7	18.3	3.84	3.66	167	18	M	M	M
MONTHLY	MEAN 22.2	MEAN 12.4	TOTAL 89.42	TOTAL 114.56	MEAN 3.43	MN. M	MN. M	TOTL 229	TOT 234	MEAN 21.6	MEAN 14.8	MEAN 20.3	MEAN 17.6	MEAN 3.14	MEAN 2.57	MN. 190	MN. 35	MN. M	MEAN M	MEAN M

S T P A U L

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	27.0	17.4	0	5.08	3.04	M	M	1590	1626	22.7	15.6	19.9	17.5	2.96	1.93	198	48	M	M	M
10/ 2/83	26.2	16.2	0	2.79	2.24	M	M	1601	1637	22.3	17.8	20.3	18.7	2.69	.37	306	75	M	M	M
10/ 3/83	16.2	11.9	0	3.56	.94	M	M	1605	1641	18.7	14.5	19.9	17.0	3.53	3.35	326	18	M	M	M
10/ 4/83	17.5	10.6	0	1.52	2.34	M	M	1609	1645	18.8	13.5	17.4	15.9	1.79	1.00	33	54	M	M	M
10/ 5/83	20.4	8.3	0	3.56	4.12	M	M	1613	1650	20.3	11.8	17.6	15.1	4.24	3.36	281	37	M	M	M
10/ 6/83	16.6	4.6	0	4.32	3.68	M	M	1614	1654	16.5	8.3	16.0	13.1	2.85	1.83	265	48	M	M	M
10/ 7/83	16.0	7.7	6.60	3.05	.82	M	M	1616	1657	14.0	11.1	14.6	13.6	3.49	1.05	62	68	M	M	M
10/ 8/83	14.1	3.6	0	2.03	4.02	M	M	1616	1659	16.5	8.1	14.7	12.0	1.80	1.47	23	35	M	M	M
10/ 9/83	14.3	2.6	0	3.05	3.95	M	M	1616	1661	14.9	6.1	13.5	10.9	4.03	3.81	147	19	M	M	M
10/10/83	13.2	8.3	5.08	2.29	.37	M	M	1617	1662	11.3	9.5	13.1	11.9	5.44	5.31	160	12	M	M	M
10/11/83	14.2	3.9	32.51	M	1.31	M	M	1617	1665	12.7	7.8	13.1	11.8	3.70	2.54	316	45	M	M	M
10/12/83	7.6	-.2	0	M	3.36	M	M	1617	1665	11.3	4.4	11.8	9.3	3.28	3.09	301	19	M	M	M
10/13/83	7.8	.2	0	M	2.21	M	M	1617	1665	10.1	4.7	10.2	8.5	2.67	2.28	311	31	M	M	M
10/14/83	12.2	3.9	0	M	2.91	M	M	1617	1666	12.4	6.2	11.0	8.9	3.45	1.76	308	57	M	M	M
10/15/83	13.6	5.8	5.84	M	.51	M	M	1617	1667	10.2	7.2	10.6	9.5	4.93	4.14	126	32	M	M	M
10/16/83	12.7	5.9	0	M	2.17	M	M	1617	1669	11.7	8.0	11.0	9.9	4.94	4.39	281	27	M	M	M
10/17/83	15.1	2.4	0	M	3.69	M	M	1617	1671	13.6	4.8	11.6	8.7	2.13	1.54	231	43	M	M	M
10/18/83	14.5	8.6	0	M	1.23	M	M	1618	1674	11.3	8.5	11.4	10.5	2.89	2.40	121	33	M	M	M
10/19/83	10.6	6.6	3.56	M	.70	M	M	1618	1674	9.7	8.1	11.0	10.2	5.13	4.97	104	15	M	M	M
10/20/83	11.1	6.1	8.64	M	1.74	M	M	1618	1674	11.0	7.3	10.5	9.4	4.42	4.26	99	15	M	M	M
10/21/83	11.9	5.6	0	M	1.88	M	M	1618	1675	11.9	7.0	10.9	9.2	3.25	3.00	91	22	M	M	M
10/22/83	14.1	5.9	0	M	2.06	M	M	1618	1677	12.7	8.0	11.7	10.2	2.40	2.18	22	25	M	M	M
10/23/83	7.3	4.1	0	M	.72	M	M	1618	1677	9.1	6.8	10.9	9.3	1.98	1.08	91	55	M	M	M
10/24/83	10.7	4.1	.51	M	.82	M	M	1618	1678	9.4	6.3	9.7	8.7	3.24	.92	243	69	M	M	M
10/25/83	13.9	2.3	0	M	3.20	M	M	1618	1680	10.7	3.5	9.7	7.4	3.56	2.73	266	39	M	M	M
10/26/83	16.3	5.6	0	M	3.25	M	M	1619	1683	12.3	4.5	10.3	7.7	2.97	2.33	312	38	M	M	M
10/27/83	22.4	5.6	0	M	3.23	M	M	1623	1689	14.5	5.3	11.8	8.2	3.47	3.10	199	27	M	M	M
10/28/83	15.1	2.5	0	M	3.24	M	M	1623	1692	13.5	6.7	12.0	10.5	4.75	4.14	319	29	M	M	M
10/29/83	12.6	-.9	0	M	3.17	M	M	1623	1693	11.8	3.6	10.7	8.0	1.56	.68	177	61	M	M	M
10/30/83	14.7	2.3	0	M	2.86	M	M	1623	1695	11.3	3.5	10.0	7.4	3.42	3.27	170	17	M	M	M
10/31/83	11.6	6.0	0	M	.68	M	M	1623	1696	9.2	7.0	9.8	9.0	3.86	3.74	160	14	M	M	M
MONTHLY	MEAN 14.6	MEAN 5.7	TOTAL 62.74	TOTAL M	MEAN 2.27	MN. M	MN. M	TOTL 45	TOT 82	MEAN 13.4	MEAN 7.9	MEAN 12.8	MEAN 10.9	MEAN 3.38	MEAN 2.65	MN. 195	MN. 36	MN M	MEAN M	MEAN M

# STAPLES

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF	
4/ 1/83	*	5.6	.6	1.52	M	M	M	O	O	5.6	3.3	M	M	M	M	M	M	M	M	M	
4/ 2/83	*	7.8	0	O	M	M	M	O	O	7.8	3.3	M	M	M	M	M	M	M	M	M	
4/ 3/83	*	3.9	0	O	M	M	M	O	O	5.0	2.8	M	M	M	M	M	M	M	M	M	
4/ 4/83	*	8.3	-2.2	O	M	M	M	O	O	10.6	3.3	M	M	M	M	M	M	M	M	M	
4/ 5/83	*	8.9	-5.0	5.33	M	M	M	O	O	9.4	2.8	M	M	M	M	M	M	M	M	M	
4/ 6/83	*	8.9	-1.7	O	M	M	M	O	O	8.3	2.8	M	M	M	M	M	M	M	M	M	
4/ 7/83	*	7.8	-6.7	1.02	M	M	M	O	O	7.2	2.8	M	M	M	M	M	M	M	M	M	
4/ 8/83	*	12.8	-6.7	O	M	M	M	O	1	13.3	2.8	M	M	M	M	M	M	M	M	M	
4/ 9/83	*	12.2	-1.1	O	M	M	M	O	3	8.9	2.8	M	M	M	M	M	M	M	M	M	
4/10/83	*	12.8	1.1	O	M	M	M	O	4	10.6	3.3	M	M	M	M	M	M	M	M	M	
4/11/83	*	9.4	-5.6	O	M	M	M	O	4	13.3	3.3	M	M	M	M	M	M	M	M	M	
4/12/83	*	1.1	-.6	5.33	M	M	M	O	4	5.6	2.8	M	M	M	M	M	M	M	M	M	
4/13/83	*	1.1	0	O	M	M	M	O	4	6.7	3.3	M	M	M	M	M	M	M	M	M	
4/14/83	*	2.2	-4.4	O	M	M	M	O	4	3.9	3.3	M	M	M	M	M	M	M	M	M	
4/15/83	*	6.1	-7.8	O	M	M	M	O	4	7.2	2.8	M	M	M	M	M	M	M	M	M	
4/16/83	*	3.9	-2.8	O	M	M	M	O	4	6.7	2.8	M	M	M	M	M	M	M	M	M	
4/17/83	*	6.7	-8.3	O	M	M	M	O	4	7.2	2.8	M	M	M	M	M	M	M	M	M	
4/18/83	*	8.3	-3.3	O	M	M	M	O	4	10.0	2.8	M	M	M	M	M	M	M	M	M	
4/19/83	*	10.6	-6.7	O	4.06	M	M	O	4	13.9	2.8	M	M	M	M	M	M	M	M	M	
4/20/83	*	13.3	-3.3	O	2.79	M	M	O	6	15.0	2.8	M	M	M	M	M	M	M	M	M	
4/21/83		18.7	-3.5	O	4.83	6.40	100	25	10	M	M	M	M	1.49	.71	294	M	M	.59	.67	
4/22/83		17.3	3.6	O	6.86	6.41	75	19	14	M	M	M	M	3.36	2.92	3	M	M	.54	.78	
4/23/83		16.6	.2	O	6.86	6.72	69	18	17	M	M	M	M	3.50	2.92	8	M	M	.40	.76	
4/24/83		22.5	-2.2	O	6.10	6.66	93	20	1	23	M	M	M	2.90	2.33	267	M	M	.57	.93	
4/25/83		21.8	3.6	O	10.16	6.31	70	22	3	29	M	M	M	5.64	5.26	170	M	M	.57	1.12	
4/26/83		19.7	4.2	3.05	3.30	4.00	96	29	5	34	11.5	4.8	8.6	4.4	4.99	2.94	266	M	M	.84	.70
4/27/83		14.1	.8	O	1.78	6.60	79	33	5	36	12.1	3.1	8.9	3.8	5.33	5.05	277	M	M	.57	.52
4/28/83		13.7	-.1	2.03	5.33	2.85	99	59	5	38	8.7	4.8	7.2	5.3	4.07	2.10	290	M	M	.80	.23
4/29/83		11.8	-3.4	O	5.08	6.03	91	38	5	39	11.5	2.2	8.5	3.2	3.61	3.24	283	M	M	.48	.38
4/30/83		16.3	-2.4	O	4.83	6.99	91	22	5	42	14.7	2.9	10.9	3.8	1.75	.69	285	M	M	.51	.65
MONTHLY	MEAN 10.8	MEAN -2.1	TOTAL 18.28	TOTAL M	MEAN M	MN. M	MN. M	TOTL 5	TOT 42	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M	
5/ 1/83		15.7	.6	O	7.87	5.77	81	30	5	45	12.7	4.4	9.9	5.1	4.71	4.31	77	24	O	.53	.66
5/ 2/83		19.2	1.8	O	6.35	6.91	57	20	6	50	15.7	5.1	11.9	5.6	3.41	2.94	20	30	O	.46	.89
5/ 3/83		21.1	-1.0	O	7.62	5.42	93	23	6	55	13.7	5.1	10.8	6.0	4.61	3.34	301	43	1	.56	.85
5/ 4/83		14.5	.3	O	5.33	6.59	84	32	6	57	15.0	5.3	11.7	6.1	3.91	3.41	319	29	O	.52	.47
5/ 5/83		21.2	2.1	O	5.59	6.90	87	33	7	63	17.9	6.3	13.7	6.9	2.36	1.72	112	42	4	.78	.73
5/ 6/83		19.6	5.9	O	7.11	5.31	100	41	10	68	15.2	8.2	12.4	8.5	5.17	5.00	77	15	1	.90	.53
5/ 7/83		16.0	3.6	O	8.89	7.34	55	18	10	71	15.7	7.1	12.8	7.8	4.61	4.18	21	25	O	.39	.82
5/ 8/83		17.4	-3.2	O	7.11	7.25	95	23	10	75	16.2	5.6	12.9	6.8	3.80	3.28	154	30	O	.48	.76
5/ 9/83		18.0	5.2	O	11.68	6.78	67	33	12	78	15.3	7.7	12.5	8.2	7.90	7.70	146	13	O	.62	.82
5/10/83		23.5	7.6	6.10	10.16	6.56	92	33	17	85	17.8	8.8	14.3	9.0	7.08	6.82	156	16	10	.92	1.04
5/11/83		24.6	11.9	O	6.10	5.17	83	41	26	94	19.4	11.5	15.8	11.1	3.71	2.56	152	45	O	1.11	1.04
5/12/83		19.4	5.3	23.88	5.84	1.69	100	78	28	98	14.5	10.0	13.5	10.9	4.67	2.49	142	55	18	1.43	.18
5/13/83		15.1	1.4	O	8.13	6.36	100	45	28	101	15.2	7.0	12.8	8.3	6.28	5.33	243	32	O	.73	.40
5/14/83		12.0	-.7	O	O	7.45	92	26	28	102	16.6	7.1	13.8	8.2	4.87	4.49	332	23	4	.48	.45
5/15/83		8.1	-.8	O	O	3.27	97	66	28	102	12.3	7.2	10.9	8.3	2.72	1.78	44	48	13	.62	.18
5/16/83		13.8	-3.9	O	4.32	7.67	100	22	28	104	17.6	4.4	13.9	6.0	1.75	.43	337	70	5	.45	.51
5/17/83		20.3	-1.6	O	6.10	6.64	100	38	28	109	17.6	6.3	14.1	7.6	3.62	3.04	192	34	1	.80	.63
5/18/83		17.1	4.1	O	3.56	4.59	100	60	28	112	15.0	8.3	12.7	9.1	3.90	3.11	144	36	9	1.04	.34
5/19/83		13.4	8.5	O	.76	1.36	100	80	29	114	11.7	10.0	11.2	10.2	2.85	2.31	30	35	34	1.22	.08
5/20/83		15.9	6.6	3.05	5.33	2.75	100	60	31	117	13.8	9.3	12.0	9.5	2.40	1.38	299	53	20	1.11	.13
5/21/83		24.3	5.4	O	5.33	7.10	100	33	35	124	19.1	7.8	15.5	8.6	5.10	4.68	180	23	2	1.08	.81
5/22/83		16.6	5.8	O	5.08	5.02	99	32	37	127	16.8	11.0	14.3	11.4	5.16	4.83	320	20	7	.96	.44
5/23/83		22.9	1.6	O	7.11	5.49	95	31	39	134	17.0	8.0	14.3	9.1	3.26	2.48	253	40	O	.86	.90
5/24/83		18.9	4.5	O	7.11	6.32	77	41	41	138	19.1	11.4	15.9	11.3	4.47	3.73	338	33	7	.96	.65
5/25/83		17.7	0.0	O	6.35	7.87	82	19	41	142	19.3	8.4	16.0	9.7	2.54	1.81	342	43	O	.47	.77
5/26/83		20.8	1.5	O	O	6.55	100	28	42	148	19.0	9.2	15.7	10.2	3.62	3.28	143	25	O	.69	.95
5/27/83		18.5	9.1	35.05	4.06	4.89	100	42	46	152	17.3	10.8	15.2	11.2	3.95	3.49	102	28	18	1.34	.28
5/28/83		20.2	7.8	2.03	5.84	4.76	100	37	50	157	16.8	10.9	15.0	11.5	4.16	2.93	335	44	15	1.10	.46
5/29/83		14.9	6.7	1.02	3.56	3.89	99	59	50	159	15.1	10.3	13.6	11.0	5.47	4.89	339	26	29	1.01	.18
5/30/83		16.8	7.9	2.03	3.56	4.86	100	54	53	163	16.4	9.7	14.2	10.4	4.67	4.04	1	30	12	1.05	.31
5/31/83		19.4	6.8	O	5.84	6.22	100	38	56	167	18.1	9.7	15.6	10.5	3.50	3.03	325	30	O	.96	.62
MONTHLY	MEAN 18.0	MEAN 3.6	TOTAL 73.16	TOTAL 171.69	MEAN 5.64	MN. 91	MN. 39	TOTL 51	TOT 125	MEAN 16.2	MEAN 8.1	MEAN 13.5	MEAN 8.8	MEAN 4.20	MEAN 3.51	MN. 193	MN. 33	MN 7	MEAN .83	MEAN .58	



# S T A P L E S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	20.5	5.5	0	4.32	4.46	100	31	59	173	17.6	10.3	15.3	11.0	2.26	1.43	191	49	1	.98	.70
6/ 2/83	22.9	7.2	0	6.60	7.15	100	42	64	179	22.1	10.9	18.1	11.5	2.91	2.22	182	40	0	1.20	.67
6/ 3/83	22.0	12.4	2.03	7.11	6.18	100	36	71	186	21.8	13.7	18.5	13.7	3.75	2.56	304	46	29	1.27	.66
6/ 4/83	18.3	10.1	1.02	6.35	4.73	98	58	75	191	18.0	12.7	15.9	13.3	5.10	4.68	309	23	17	1.22	.31
6/ 5/83	17.4	5.5	0	6.35	7.02	98	34	77	194	21.1	12.0	17.9	12.6	4.11	3.65	327	27	3	.86	.57
6/ 6/83	22.5	5.7	0	8.38	7.73	78	19	81	201	20.9	11.6	17.8	12.4	5.63	5.26	298	21	0	.71	1.07
6/ 7/83	25.1	5.9	0	7.11	7.75	73	23	86	208	22.9	11.2	19.1	12.2	2.47	1.62	296	48	0	.77	1.19
6/ 8/83	24.2	10.4	.76	7.87	6.50	95	43	94	215	22.8	13.5	19.4	14.0	4.16	2.84	284	46	8	1.22	.81
6/ 9/83	26.3	6.4	.76	7.62	7.79	99	27	100	224	25.1	12.4	20.9	13.4	1.97	.33	140	74	1	1.07	1.06
6/10/83	31.1	13.7	76.68	5.59	5.33	98	48	112	235	24.1	15.6	20.2	15.6	4.26	3.46	132	35	32	1.74	.68
6/11/83	27.1	16.2	0	5.84	5.92	99	53	124	247	22.3	16.2	20.0	16.3	4.62	4.38	153	18	33	2.01	.65
6/12/83	25.0	18.9	2.03	5.84	2.46	97	84	136	259	20.5	17.0	18.8	17.0	5.49	5.30	156	15	3	2.28	.24
6/13/83	25.0	15.6	87.63	0	3.14	100	74	146	269	22.4	17.5	20.1	17.6	5.28	2.36	195	60	32	2.16	.37
6/14/83	18.2	12.3	16.00	0	2.28	100	76	152	275	18.7	15.8	18.0	16.4	3.47	1.55	299	60	73	1.63	.10
6/15/83	15.9	10.2	.51	4.83	4.01	98	68	155	278	17.7	14.1	16.8	15.1	6.87	6.71	293	12	6	1.23	.21
6/16/83	19.1	8.3	0	4.32	5.82	100	47	158	282	20.6	13.4	18.5	14.2	3.63	2.92	321	36	0	1.14	.40
6/17/83	23.0	5.1	0	7.11	8.51	100	38	162	289	24.7	12.5	21.0	13.8	1.82	1.18	130	48	17	1.10	.72
6/18/83	21.1	8.7	0	6.10	5.19	100	52	167	294	20.8	14.5	18.7	15.4	4.13	3.90	119	19	13	1.49	.41
6/19/83	26.0	13.6	0	6.10	6.46	98	61	177	304	23.9	15.4	20.8	15.8	4.52	4.26	137	20	0	1.87	.53
6/20/83	24.9	19.1	4.06	4.32	4.21	98	77	189	316	23.2	18.0	20.8	17.8	4.04	3.84	136	18	13	2.24	.31
6/21/83	24.9	19.7	.76	4.06	3.34	98	82	201	328	22.6	19.0	20.5	18.6	4.22	3.78	136	26	26	2.42	.21
6/22/83	28.1	15.6	0	8.38	7.62	97	64	213	340	25.6	19.1	22.9	19.2	5.54	3.47	255	50	3	2.39	.61
6/23/83	28.9	13.3	56.64	0	8.19	100	37	224	351	29.8	16.6	25.3	17.6	1.72	.52	150	68	25	1.69	1.09
6/24/83	27.8	17.8	7.11	0	4.86	100	74	237	364	26.0	18.8	23.1	19.0	3.85	2.86	151	41	29	2.37	.31
6/25/83	31.4	18.7	0	6.60	7.30	98	56	252	378	28.9	19.4	25.2	19.7	4.19	3.75	205	26	0	2.55	.80
6/26/83	27.3	15.4	5.08	6.60	4.55	98	42	263	390	25.2	19.8	23.5	20.9	2.55	.88	323	66	10	2.14	.52
6/27/83	20.4	9.9	0	7.87	7.79	97	42	269	395	27.1	17.7	24.1	18.7	4.01	3.81	72	18	0	1.39	.44
6/28/83	22.7	7.4	1.52	5.59	6.15	87	65	274	401	24.8	16.0	22.3	17.5	3.80	3.54	87	21	0	1.39	.49
6/29/83	18.4	13.2	29.72	0	.87	100	73	279	407	19.4	17.5	20.0	18.0	4.24	3.83	113	25	75	1.70	.10
6/30/83	26.6	15.8	0	7.11	6.59	99	66	291	418	24.6	17.3	22.2	17.6	3.86	3.06	243	37	25	2.16	.38
MONTHLY	MEAN 23.7	MEAN 11.9	TOTAL 292.31	TOTAL 157.97	MEAN 5.66	MN. 97	MN. 53	TOTL 235	TOT 251	MEAN 22.8	MEAN 15.3	MEAN 20.2	MEAN 15.9	MEAN 3.95	MEAN 3.13	MN. 204	MN. 36	MN 16	MEAN 1.61	MEAN .55
7/ 1/83	26.4	14.5	0	5.59	7.41	100	64	301	429	25.4	17.6	23.0	18.3	2.69	2.14	298	37	11	2.00	.48
7/ 2/83	28.0	17.2	16.76	7.87	3.85	99	77	314	441	23.8	19.4	22.0	19.6	4.52	3.64	122	36	14	2.34	.26
7/ 3/83	24.9	13.9	9.14	3.81	3.22	99	83	323	451	22.9	18.6	21.5	19.1	2.94	1.75	279	52	54	2.16	.14
7/ 4/83	21.4	10.3	.76	4.83	4.08	99	70	329	457	20.7	16.2	19.7	17.7	5.56	4.68	296	32	21	1.60	.19
7/ 5/83	21.0	6.3	0	5.33	8.09	100	47	333	462	26.0	13.7	22.5	15.4	1.97	1.22	253	50	0	1.24	.46
7/ 6/83	28.5	11.1	0	8.64	7.62	100	65	342	472	27.7	16.2	23.9	17.2	4.10	3.93	167	17	23	2.05	.53
7/ 7/83	32.0	20.0	0	9.65	6.98	90	56	358	487	29.0	19.4	25.1	19.6	5.65	5.51	185	12	0	2.35	1.03
7/ 8/83	33.8	20.1	0	7.87	7.15	95	62	375	502	31.4	20.9	26.9	20.9	2.46	1.55	161	49	0	2.85	.81
7/ 9/83	31.5	19.6	0	8.38	7.45	97	58	391	517	31.1	21.9	27.3	22.0	4.15	3.86	117	21	0	2.69	.54
7/10/83	32.5	19.3	0	12.45	7.68	98	49	407	531	31.1	21.8	27.3	22.1	4.31	3.92	158	24	12	2.51	1.05
7/11/83	24.9	16.5	0	9.91	7.48	88	45	417	542	28.7	21.9	25.9	22.2	5.66	5.35	287	19	0	1.63	.87
7/12/83	30.9	14.2	0	9.65	7.94	93	33	430	554	30.7	19.4	26.7	20.3	3.17	2.79	215	28	0	1.66	1.32
7/13/83	33.3	16.1	0	9.91	7.55	95	53	445	567	31.0	20.5	27.0	21.1	3.77	3.61	175	17	0	2.52	.91
7/14/83	34.1	22.3	0	10.16	7.29	92	54	463	583	31.9	22.3	27.8	22.4	4.10	3.90	181	18	0	2.77	1.09
7/15/83	30.0	20.9	0	6.10	6.30	96	58	478	599	30.7	22.8	27.1	22.9	4.34	4.15	153	17	0	2.60	.68
7/16/83	28.1	18.2	0	6.10	5.04	99	69	491	612	29.4	23.0	26.3	23.0	3.13	1.78	226	53	13	2.47	.39
7/17/83	26.1	15.4	17.27	1.27	3.06	100	81	502	623	24.7	20.3	23.9	21.0	2.37	1.15	86	58	23	2.22	.17
7/18/83	26.1	17.6	0	4.06	5.41	99	65	514	635	27.6	20.0	24.9	20.3	2.36	1.39	123	52	34	2.33	.42
7/19/83	27.9	17.3	1.78	1.02	4.39	100	75	527	647	25.6	20.1	23.8	20.8	1.93	1.18	98	50	47	2.49	.25
7/20/83	29.6	17.1	2.29	4.32	5.64	100	61	540	661	28.0	20.2	25.3	20.7	2.89	2.17	119	40	40	2.47	.46
7/21/83	32.5	21.8	0	6.35	5.81	97	71	557	676	31.2	21.9	27.7	22.1	2.30	1.79	70	38	13	2.99	.45
7/22/83	30.6	20.3	0	8.13	6.90	96	46	573	692	30.8	23.2	27.6	23.2	2.64	1.93	299	42	0	2.40	.71
7/23/83	26.5	16.3	0	8.13	6.92	97	56	584	703	28.6	21.4	26.1	22.2	3.50	3.25	319	22	0	1.97	.63
7/24/83	26.8	14.6	0	5.33	5.69	99	53	595	714	27.9	20.4	25.3	21.2	1.68	1.23	357	42	28	1.88	.61
7/25/83	27.7	13.1	0	6.60	6.67	100	43	605	724	29.5	19.7	25.9	20.6	1.58	1.15	125	42	17	1.82	.70
7/26/83	29.0	14.3	0	8.89	6.71	99	52	617	736	27.8	20.1	25.2	20.9	3.43	3.17	165	22	17	2.06	.74
7/27/83	27.8	18.9	0	5.84	5.59	98	74	630	749	27.9	21.6	25.4	21.8	3.20	2.95	171	22	10	2.47	.43
7/28/83	31.1	19.0	0	2.79	4.85	99	68	645	764	28.9	22.2	26.0	22.2	2.02	1.48	222	42	14	2.67	.45
7/29/83	33.1	17.1	14.73	10.41	6.58	98	35	660	777	30.1	21.2	26.8	21.7	2.06	1.59	298	39	20	2.06	1.26
7/30/83	27.7	17.5	5.59	4.32	4.17	98	62	673	790	27.0	21.3	24.9	21.8	2.02	.19	345	77	56	2.30	.30
7/31/83	24.6	15.4	0	7.11	6.52	99	60	683	800	25.1	19.3	23.7	20.4	4.40	4.22	304	16	22	1.85	.45
MONTHLY	MEAN 28.7	MEAN 16.6	TOTAL 68.32	TOTAL 210.82	MEAN 6.13	MN. 97	MN. 59	TOTL 392	TOT 381	MEAN 28.1	MEAN 20.3	MEAN 25.2	MEAN 20.8	MEAN 3.25	MEAN 2.67	MN. 206	MN. 35	MN 16	MEAN 2.24	MEAN .61

# STAPLES

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	29.9	13.3	0	4.06	7.49	99	40	694	811	31.0	18.2	27.1	19.4	1.63	.20	285	76	15	1.80	.84
8/ 2/83	27.8	16.1	.76	2.03	2.91	98	79	706	823	24.6	20.2	23.5	21.1	3.09	2.66	140	30	32	2.42	.26
8/ 3/83	32.3	19.3	0	6.60	6.77	98	48	722	838	31.6	21.2	27.8	21.3	2.08	1.54	347	41	27	2.64	.71
8/ 4/83	30.6	18.9	0	7.62	7.09	98	59	737	852	32.9	21.8	28.6	22.2	1.81	1.49	130	34	23	2.51	.61
8/ 5/83	32.0	16.8	0	6.10	6.60	98	61	751	866	31.6	21.7	28.0	22.3	1.85	1.48	201	36	26	2.66	.63
8/ 6/83	34.8	19.9	0	8.89	7.18	96	15	769	881	33.2	22.8	29.1	23.1	1.55	.37	123	71	26	2.08	1.44
8/ 7/83	35.6	19.7	0	12.19	7.04	92	32	786	895	32.8	22.8	28.9	23.2	3.65	3.15	239	30	0	2.22	1.69
8/ 8/83	28.8	15.0	0	6.60	7.17	97	26	798	907	31.5	22.7	28.3	23.3	2.67	2.36	354	28	4	1.50	1.33
8/ 9/83	21.7	13.2	2.29	1.02	1.60	99	82	806	915	23.9	21.1	24.9	21.7	2.22	1.55	118	45	53	1.96	.13
8/10/83	25.9	15.1	0	6.10	5.43	98	62	816	925	28.2	20.0	25.5	20.7	3.65	2.38	357	48	3	2.05	.38
8/11/83	25.5	12.7	0	6.10	7.11	100	35	825	934	30.4	18.7	26.4	19.9	2.31	1.54	71	47	8	1.59	.60
8/12/83	27.9	11.5	1.78	8.38	6.86	100	52	835	944	29.7	18.8	26.0	20.1	3.45	3.17	165	23	20	1.85	.63
8/13/83	28.4	17.3	0	7.11	6.14	97	52	848	957	30.3	21.3	26.6	21.6	3.17	1.99	278	49	19	2.09	.69
8/14/83	31.0	13.6	0	7.11	6.95	100	34	860	969	31.7	19.5	27.4	20.6	1.38	.51	209	64	26	1.79	1.04
8/15/83	33.7	16.0	0	5.33	5.76	98	41	875	982	31.6	21.0	27.4	21.6	1.53	1.10	166	43	45	2.21	.92
8/16/83	24.1	18.3	8.89	3.56	2.07	98	76	886	993	24.6	21.6	24.8	21.9	2.16	1.48	95	45	30	2.31	.18
8/17/83	31.9	19.7	0	4.57	5.76	98	49	902	1008	26.0	21.2	25.0	21.3	1.69	.75	279	60	34	2.41	.60
8/18/83	30.7	19.1	.51	6.35	5.08	97	41	917	1023	27.1	21.8	24.5	21.9	3.04	2.57	160	32	37	2.33	.71
8/19/83	25.1	12.8	0	4.83	3.86	98	37	926	1031	24.9	20.8	23.5	21.9	3.45	2.97	303	30	30	1.86	.62
8/20/83	24.4	12.6	0	4.83	4.51	98	60	934	1040	24.9	19.5	22.7	20.4	2.53	2.02	120	36	11	1.75	.40
8/21/83	29.2	16.3	.25	4.32	3.53	98	68	947	1053	25.1	19.8	22.8	20.5	2.90	1.02	339	65	7	2.26	.36
8/22/83	27.9	11.5	.25	4.57	5.16	100	37	957	1062	26.2	18.7	23.2	19.9	1.64	.90	15	54	26	1.54	.80
8/23/83	26.0	15.1	0	5.59	5.04	97	55	967	1073	25.8	19.6	23.1	20.3	3.02	2.72	127	26	12	1.90	.53
8/24/83	28.0	18.1	0	3.05	3.11	97	78	981	1086	24.8	20.6	22.8	20.9	2.98	2.64	157	27	8	2.50	.23
8/25/83	33.3	19.9	0	8.38	5.98	97	59	997	1101	29.1	21.5	25.1	21.4	3.22	2.76	189	31	32	2.75	.70
8/26/83	32.5	17.8	0	4.83	5.20	96	55	1012	1115	28.5	21.9	25.3	22.2	2.18	1.07	73	58	11	2.44	.90
8/27/83	31.2	16.9	0	4.83	3.71	98	52	1026	1128	26.7	21.8	24.2	22.2	1.60	.61	169	64	34	2.39	.48
8/28/83	33.3	18.1	.25	7.11	5.24	98	42	1042	1142	28.9	21.4	25.2	21.8	3.02	1.78	158	52	32	2.39	.78
8/29/83	29.1	18.5	2.03	3.05	2.48	97	43	1056	1156	24.8	21.6	24.1	22.2	3.06	.18	194	79	24	2.18	.54
8/30/83	30.3	15.6	0	5.33	6.07	98	39	1069	1169	28.7	19.9	24.9	20.9	1.86	1.14	54	50	39	2.01	.77
8/31/83	28.5	15.8	0	6.10	4.82	98	59	1081	1181	26.6	20.8	24.1	21.4	2.42	2.13	172	28	33	2.12	.54
MONTHLY	MEAN 29.4	MEAN 16.3	TOTAL 17.01	TOTAL 176.54	MEAN 5.28	MN. 98	MN. 51	TOTL 398	TOT 381	MEAN 28.3	MEAN 20.8	MEAN 25.5	MEAN 21.4	MEAN 2.48	MEAN 1.68	MN. 187	MN. 45	MN. 23	MEAN 2.15	MEAN .68
9/ 1/83	32.3	15.0	0	6.35	5.74	98	57	1095	1194	28.2	20.4	24.7	21.2	2.97	2.81	173	19	M	2.34	.69
9/ 2/83	35.7	19.5	0	4.83	5.69	97	38	1112	1208	29.0	21.9	25.4	22.1	3.99	3.75	178	20	M	2.52	1.19
9/ 3/83	28.4	17.1	0	4.83	1.91	98	40	1125	1221	24.9	22.2	24.3	22.7	1.75	1.29	215	41	M	2.14	.63
9/ 4/83	24.4	14.3	3.00	7.11	1.25	99	75	1134	1230	22.6	19.6	22.7	20.9	1.59	.45	251	69	M	1.96	.14
9/ 5/83	25.1	12.1	0	5.59	3.71	100	57	1143	1239	24.7	18.2	22.2	19.6	2.27	1.41	214	50	M	1.71	.33
9/ 6/83	18.6	10.2	0	4.83	3.34	95	46	1147	1244	20.6	17.2	21.0	18.9	4.80	4.61	268	16	M	1.22	.44
9/ 7/83	25.1	10.1	0	6.60	5.67	100	44	1155	1251	25.2	16.7	21.9	18.2	3.33	1.58	202	59	M	1.53	.60
9/ 8/83	31.6	16.5	0	6.86	4.47	86	56	1169	1264	25.2	18.7	22.3	19.3	5.25	4.78	169	24	M	2.22	.90
9/ 9/83	25.9	18.3	6.60	5.59	4.33	97	66	1181	1276	26.5	20.7	23.2	20.7	2.74	.94	79	66	M	2.12	.39
9/10/83	19.6	7.8	0	2.54	4.76	97	43	1185	1281	23.2	17.5	22.1	19.5	5.27	4.91	299	21	M	1.33	.51
9/11/83	15.5	6.1	9.40	2.54	1.93	100	60	1186	1284	18.1	14.9	19.5	17.1	2.16	1.06	6	58	M	1.07	.17
9/12/83	17.5	6.9	.51	2.79	4.27	100	49	1188	1288	19.5	13.7	18.2	15.5	2.69	2.47	335	23	M	1.09	.32
9/13/83	19.6	4.8	0	3.81	4.75	100	31	1190	1293	21.2	14.2	19.0	15.7	1.80	1.46	310	36	M	1.00	.44
9/14/83	16.9	1.7	16.76	2.03	2.66	100	61	1190	1296	17.4	12.6	17.1	14.8	3.07	2.63	134	31	M	1.06	.22
9/15/83	11.4	10.1	1.02	1.78	.39	99	97	1191	1297	14.7	13.6	15.6	14.5	3.91	3.39	113	30	M	1.29	.01
9/16/83	14.7	9.5	0	.25	1.36	99	82	1193	1299	15.4	13.2	15.1	14.1	2.41	1.86	72	39	M	1.27	.06
9/17/83	16.8	10.1	0	2.29	2.14	99	82	1196	1303	15.7	13.1	15.1	14.0	4.22	3.21	139	9	M	1.45	.09
9/18/83	16.8	7.0	1.27	2.29	5.11	97	37	1198	1306	18.5	12.5	16.4	13.8	4.44	4.19	275	19	M	.93	.46
9/19/83	14.3	5.5	.25	.76	2.45	100	57	1198	1308	16.5	12.6	15.3	13.7	2.65	1.65	346	50	M	.95	.23
9/20/83	10.4	3.9	1.02	7.11	2.94	100	70	1198	1308	13.6	10.6	14.0	12.3	5.74	5.59	296	13	M	.84	.10
9/21/83	9.3	3.7	0	3.56	2.35	99	63	1198	1308	12.4	9.7	12.3	11.3	5.54	5.18	288	21	M	.75	.15
9/22/83	7.8	-2.5	0	2.54	2.98	100	65	1198	1308	12.3	8.7	12.0	10.5	4.51	4.15	289	23	M	.67	.14
9/23/83	15.5	-2.7	0	4.06	5.04	100	26	1198	1311	14.7	6.7	12.6	9.0	3.14	2.71	181	30	M	.56	.51
9/24/83	20.3	4.9	0	4.06	4.70	100	45	1201	1316	16.2	8.9	13.6	10.2	3.19	2.77	174	30	M	.91	.50
9/25/83	25.8	2.3	0	4.06	4.42	100	25	1205	1324	17.5	9.5	14.5	10.8	2.10	1.74	183	33	M	1.10	.73
9/26/83	27.7	5.8	0	3.30	4.66	100	29	1211	1333	19.3	11.3	15.9	12.1	1.31	.43	35	66	M	1.20	.77
9/27/83	27.5	8.2	1.02	6.35	4.32	99	39	1219	1342	18.9	12.0	16.0	12.8	3.28	3.05	150	21	M	1.45	.77
9/28/83	25.0	14.5	0	3.81	2.32	95	55	1229	1351	18.5	14.9	16.3	14.6	4.25	1.82	180	61	M	1.81	.47
9/29/83	14.5	10.2	9.14	.25	1.09	100	89	1231	1354	15.7	13.7	15.6	14.2	2.97	1.96	35	47	M	1.32	.08
9/30/83	23.0	11.7	0	1.27	1.49	99	77	1239	1361	17.0	13.6	15.6	13.9	3.38	2.94	156	29	M	1.81	.21
MONTHLY	MEAN 20.6	MEAN 8.7	TOTAL 49.99	TOTAL 114.04	MEAN 3.41	MN. 98	MN. 55	TOTL 158	TOT 180	MEAN 19.4	MEAN 14.4	MEAN 18.0	MEAN 15.6	MEAN 3.36	MEAN 2.69	MN. 191	MN. 35	M	MEAN 1.39	MEAN .41

# S T A P L E S

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	19.1	11.2	0	1.27	1.04	97	82	1244	1366	16.5	14.4	15.6	14.8	3.20	1.02	259	67	M	1.67	.13
10/ 2/83	12.5	10.4	6.60	1.27	.52	98	95	1245	1368	14.4	13.2	14.8	13.8	2.39	1.44	13	51	M	1.31	.03
10/ 3/83	12.3	4.4	0	1.52	1.25	100	85	1245	1369	13.7	11.1	13.8	12.6	3.44	3.23	318	20	M	1.15	.06
10/ 4/83	15.1	5.1	0	1.02	1.95	100	70	1245	1371	14.5	10.9	13.5	12.0	1.69	1.13	204	46	M	1.11	.13
10/ 5/83	12.4	2.2	0	1.78	1.87	99	77	1245	1373	12.4	9.3	12.9	11.2	4.47	3.88	284	29	M	1.03	.09
10/ 6/83	14.2	0.0	1.78	2.03	3.74	100	46	1245	1375	13.9	7.4	12.4	9.6	2.81	1.97	244	44	M	.80	.27
10/ 7/83	9.9	1.1	2.00	2.03	.82	100	85	1245	1375	11.3	8.5	11.7	10.3	3.02	1.43	43	59	M	.98	.04
10/ 8/83	14.3	-2.8	1.00	2.03	3.92	100	28	1245	1377	13.8	6.6	11.8	8.7	1.41	.84	176	51	M	.62	.30
10/ 9/83	13.5	-.2	.52	2.03	2.53	98	54	1245	1379	11.7	6.5	10.5	8.5	4.73	4.54	150	16	M	.77	.30
10/10/83	11.8	8.2	10.16	.51	.25	99	73	1245	1379	10.6	9.4	10.4	9.8	4.85	4.64	160	17	M	1.13	.08
10/11/83	12.5	-1.8	0	4.32	3.95	99	40	1245	1381	11.9	7.1	11.1	9.1	4.60	3.43	260	41	M	.76	.26
10/12/83	5.5	-2.9	3.56	1.02	1.93	100	47	1245	1381	8.4	5.7	9.1	7.6	2.89	2.08	267	43	M	.56	.10
10/13/83	4.8	1.7	1.02	.51	1.28	100	88	1245	1381	8.0	6.1	8.1	7.3	3.34	2.58	266	39	M	.73	.02
10/14/83	13.3	-1.2	0	2.03	3.73	100	37	1245	1382	10.8	4.8	9.2	6.5	2.55	1.28	260	57	M	.66	.21
10/15/83	8.5	2.6	3.05	2.03	.61	99	89	1245	1382	7.9	6.6	8.0	7.4	4.44	3.95	108	27	M	.91	.04
10/16/83	11.1	.5	0	2.03	2.05	100	69	1245	1383	9.6	6.2	8.7	7.6	5.24	4.77	279	24	M	.85	.08
10/17/83	13.3	-1.0	.76	2.03	3.01	100	61	1245	1384	10.1	4.6	8.7	6.2	2.11	1.56	255	41	M	.81	.18
10/18/83	7.8	2.8	8.13	1.27	.35	100	71	1245	1384	8.2	6.7	8.3	7.3	4.16	4.03	83	14	M	.81	.06
10/19/83	8.9	4.5	5.33	.25	.50	99	91	1245	1384	7.8	6.6	7.7	7.1	4.56	4.44	107	13	M	.96	.03
10/20/83	11.9	2.0	2.00	1.78	1.55	100	59	1245	1385	9.3	6.8	8.4	7.4	3.16	3.04	111	16	M	.90	.09
10/21/83	12.1	2.9	0	1.78	1.21	97	59	1245	1386	9.4	6.4	8.4	7.1	1.75	1.50	97	30	M	.86	.18
10/22/83	15.7	1.6	0	1.78	2.35	100	62	1245	1389	11.6	7.2	9.8	8.0	.88	.43	79	58	M	.97	.18
10/23/83	5.8	-.3	0	1.78	1.05	100	97	1245	1389	8.1	6.1	8.4	7.2	2.65	2.50	137	19	M	.77	.0
10/24/83	10.5	1.7	1.02	1.27	.64	100	86	1245	1390	8.6	5.6	8.1	7.1	3.34	1.66	260	57	M	.90	.02
10/25/83	13.8	-2.1	0	1.52	2.81	96	41	1245	1392	8.7	4.1	7.7	5.8	3.51	3.03	242	30	M	.65	.30
10/26/83	15.3	.4	0	4.83	3.12	95	36	1245	1394	10.1	4.4	8.3	5.8	2.91	2.16	276	41	M	.68	.38
10/27/83	25.0	3.3	0	3.81	3.11	93	23	1250	1402	11.9	5.1	9.3	6.1	3.13	2.42	235	39	M	.82	.84
10/28/83	12.0	-2.7	0	3.56	3.03	98	42	1250	1403	9.8	5.2	8.6	7.0	5.14	4.88	317	18	M	.63	.35
10/29/83	10.9	-5.7	0	2.54	2.99	100	40	1250	1403	8.8	3.3	7.4	5.2	2.07	1.63	180	38	M	.53	.23
10/30/83	14.1	-.8	0	1.52	2.82	98	50	1250	1405	8.8	3.5	7.3	5.0	3.92	3.69	174	20	M	.73	.27
10/31/83	7.6	4.2	0	M	.37	100	94	1250	1405	7.1	5.5	6.9	6.1	4.08	3.96	158	14	M	.94	.01
MONTHLY	MEAN 12.1	MEAN 1.6	TOTAL 46.93	TOTAL M	MEAN 1.95	MN. 99	MN. 64	TOTL 11	TOT 44	MEAN 10.6	MEAN 6.9	MEAN 9.8	MEAN 8.2	MEAN 3.31	MEAN 2.68	MN. 194	MN. 35	MN 24	MEAN .87	MEAN .17

## W A S E C A

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
4/ 1/83	5.0	1.1	1.78	M	1.42	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 2/83	6.1	.6	1.27	M	2.43	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 3/83	4.4	-1.1	.76	M	2.42	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 4/83	6.1	-1.7	0	M	3.39	M	M	0	0	M	M	M	M	M	M	M	M	M	M	M
4/ 5/83	4.2	.2	8.89	M	1.58	100	73	0	0	M	M	M	M	3.97	3.82	51	16	M	.63	.09
4/ 6/83	2.8	.0	0	M	2.46	100	93	0	0	M	M	M	M	3.37	2.46	346	42	M	.65	.01
4/ 7/83	3.6	1.6	0	M	2.02	100	73	0	0	M	M	M	M	3.91	3.64	324	21	M	.60	.05
4/ 8/83	9.1	3.2	6.60	M	5.06	100	51	0	0	M	M	M	M	2.26	1.96	320	30	M	.59	.24
4/ 9/83	4.3	.1	8.89	M	1.77	100	70	0	0	M	M	M	M	6.15	5.80	302	19	M	.63	.01
4/10/83	8.9	-.5	0	M	3.22	100	64	0	0	M	M	M	M	4.61	4.01	339	29	M	.68	.07
4/11/83	11.9	-.2	0	M	6.34	100	57	0	1	M	M	M	M	2.97	1.75	47	52	M	.73	.21
4/12/83	5.1	.7	21.59	M	1.21	100	86	0	1	M	M	M	M	6.53	6.17	86	19	M	.71	.02
4/13/83	6.6	.3	31.75	M	.68	100	100	0	1	M	M	M	M	4.96	3.33	14	46	M	.83	.00
4/14/83	.5	-.4	20.32	M	4.18	100	91	0	1	.2	.1	.2	-.1	5.22	5.22	335	28	M	.55	.01
4/15/83	3.2	-1.0	2.54	M	7.21	100	70	0	1	.1	.0	.2	-.0	2.82	2.31	277	35	M	.44	.07
4/16/83	3.1	-5.2	0	M	6.25	100	47	0	1	.1	.0	.1	-.0	3.94	2.62	336	47	M	.48	.12
4/17/83	2.9	-6.5	0	M	6.71	93	54	0	1	.1	.0	.1	-.1	2.01	1.56	84	38	M	.38	.15
4/18/83	5.8	-6.6	0	0	7.19	81	34	0	1	.1	.0	.1	-.1	1.63	1.29	110	37	M	.33	.26
4/19/83	7.8	-4.8	0	0	7.19	82	44	0	1	.1	.0	.1	-.1	2.13	1.59	140	40	M	.42	.28
4/20/83	12.5	-2.1	0	0	6.14	84	49	0	2	.1	.0	.2	-.1	2.67	2.20	128	34	M	.61	.31
4/21/83	16.6	1.7	0	0	6.84	89	43	0	5	3.7	.1	1.7	.1	2.03	1.58	115	38	M	.74	.47
4/22/83	18.3	3.6	0	0	5.22	98	43	1	10	27.9	.0	20.0	-.2	1.47	.67	30	60	M	.90	.49
4/23/83	14.4	3.8	0	0	6.32	86	39	1	12	21.8	-.2	16.5	-.0	2.86	2.66	32	21	M	.68	.49
4/24/83	18.0	-.1	0	0	7.21	96	29	1	16	26.5	-2.0	20.7	-2.7	1.53	.47	278	67	M	.66	.66
4/25/83	21.7	4.8	0	10.67	7.24	75	23	4	22	16.3	1.8	16.7	2.3	2.47	2.33	175	19	M	.73	.91
4/26/83	23.3	9.3	0	7.87	5.26	66	47	10	28	13.2	8.0	9.6	7.2	4.52	3.35	191	41	M	1.02	.83
4/27/83	16.9	1.6	0	5.84	6.29	94	31	10	32	12.5	7.4	9.5	7.6	1.02	.54	294	56	M	.65	.69
4/28/83	17.7	6.5	1.27	2.03	2.78	100	43	13	36	11.9	8.8	9.4	8.3	1.89	.18	338	77	M	.84	.52
4/29/83	12.0	-.9	0	5.33	6.13	100	45	13	37	11.5	6.6	9.1	7.4	2.47	2.12	347	31	M	.70	.34
4/30/83	15.3	5.1	0	5.84	6.89	92	42	13	39	13.5	7.6	10.2	7.8	3.79	3.33	26	28	M	.75	.48
MONTHLY	MEAN 9.6	MEAN .2	TOTAL 105.66	TOTAL M	MEAN 4.63	MN. M	MN. M	TOTL 13	TOT 39	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MN. M	MN. M	MN M	MEAN M	MEAN M
5/ 1/83	13.7	5.8	20.32	.76	3.04	100	47	13	41	10.8	8.3	10.1	8.6	6.06	5.57	73	23	37	.87	.26
5/ 2/83	16.0	3.5	0	4.83	4.95	100	43	13	44	10.9	6.8	8.9	7.4	5.46	5.09	26	21	26	.88	.32
5/ 3/83	18.7	4.1	0	6.35	6.93	77	33	14	48	12.6	6.4	9.8	7.3	3.21	1.87	355	52	0	.74	.67
5/ 4/83	15.0	3.7	2.29	6.35	7.43	78	32	14	51	12.5	7.6	10.0	8.2	1.27	.98	316	39	0	.62	.59
5/ 5/83	20.4	6.5	10.16	6.60	5.87	95	56	18	56	13.4	8.7	10.7	8.7	4.24	2.96	155	45	47	1.18	.37
5/ 6/83	15.8	10.3	26.67	2.29	2.13	99	94	21	59	12.5	10.7	10.7	10.0	6.56	5.86	80	27	70	1.38	.04
5/ 7/83	13.0	5.3	1.27	4.83	4.46	100	43	21	61	11.1	8.7	10.7	9.4	6.88	6.41	27	21	19	.89	.27
5/ 8/83	14.8	1.1	0	5.08	7.84	85	34	21	63	12.4	6.1	10.1	7.7	2.34	1.89	120	36	0	.60	.56
5/ 9/83	16.9	3.7	0	7.11	7.59	87	31	21	66	11.9	7.1	9.9	8.2	6.75	6.58	148	13	0	.69	.63
5/10/83	23.6	8.4	0	11.43	6.95	72	36	27	73	14.8	8.8	11.6	8.9	4.37	4.28	152	11	7	.91	.88
5/11/83	26.3	9.0	1.52	6.60	5.88	93	38	34	81	16.9	10.5	13.3	10.4	4.74	4.58	146	15	0	1.20	.92
5/12/83	21.9	10.1	13.46	6.60	2.24	99	84	40	87	16.1	13.7	13.7	12.9	6.17	4.34	159	44	68	1.75	.11
5/13/83	18.7	6.5	0	5.33	6.54	99	50	43	92	15.6	11.1	13.3	11.6	2.38	1.95	300	34	31	1.11	.38
5/14/83	11.1	2.1	0	3.30	5.07	89	47	43	92	12.9	9.4	12.9	10.4	5.57	5.28	337	18	0	.70	.30
5/15/83	17.9	.9	0	5.33	6.87	95	29	43	96	13.9	7.1	11.5	8.9	3.29	1.30	298	63	8	.69	.57
5/16/83	15.2	5.3	0	3.81	6.17	99	41	43	99	15.4	9.6	12.4	10.2	3.31	2.82	37	31	3	.79	.41
5/17/83	17.5	6.9	.51	4.06	4.66	94	49	46	103	14.6	10.4	12.4	10.8	4.44	3.64	158	35	4	1.01	.39
5/18/83	12.7	9.0	24.13	.76	1.31	100	86	46	104	12.5	10.9	12.2	10.8	5.47	5.18	95	18	79	1.22	.05
5/19/83	11.9	9.6	1.78	0	1.02	100	97	47	105	11.3	10.5	10.8	10.3	4.30	3.68	352	31	55	1.25	.02
5/20/83	17.6	6.0	0	5.33	6.01	100	80	49	109	14.9	9.5	12.3	9.9	2.91	2.17	261	41	10	1.33	.13
5/21/83	22.4	6.5	0	5.84	7.67	100	44	53	115	16.9	10.1	13.6	10.7	2.89	2.75	181	18	24	1.32	.44
5/22/83	20.3	8.7	0	7.11	6.04	100	53	58	120	16.8	12.8	14.0	12.5	1.85	1.55	316	33	22	1.18	.46
5/23/83	23.7	4.0	0	7.62	7.88	91	21	62	127	18.6	10.8	14.9	11.8	1.92	1.16	275	51	0	.75	1.08
5/24/83	26.6	12.1	0	7.37	6.36	66	42	71	136	19.7	13.8	15.9	13.5	4.31	2.10	253	58	1	1.15	1.03
5/25/83	17.0	6.3	0	5.33	8.08	64	22	73	140	18.5	13.2	15.8	13.7	1.61	1.42	4	28	0	.57	.82
5/26/83	22.8	3.6	16.51	0	7.46	72	18	76	146	19.0	11.8	15.6	13.0	.76	.63	173	34	0	.58	1.17
5/27/83	22.5	11.1	1.27	5.84	5.56	100	46	83	153	17.8	13.8	15.5	13.8	5.38	4.46	136	33	23	1.64	.25
5/28/83	18.5	9.4	2.54	.25	3.12	100	73	87	157	16.8	13.8	15.2	13.8	2.62	1.34	24	57	0	1.51	.10
5/29/83	13.3	7.0	1.27	5.08	3.82	100	82	87	159	14.3	11.5	14.5	12.4	5.43	5.03	331	22	15	1.10	.09
5/30/83	14.5	7.2	1.78	3.30	3.44	100	75	88	161	12.9	10.3	12.4	11.3	5.35	5.00	339	21	35	1.16	.09
5/31/83	19.9	8.2	0	4.83	6.65	100	40	92	166	16.5	10.5	13.6	11.0	2.57	2.35	344	24	16	1.13	.47
MONTHLY	MEAN 18.1	MEAN 6.5	TOTAL 125.48	TOTAL 149.32	MEAN 5.45	MN. 92	MN. 50	TOTL 79	TOT 127	MEAN 14.7	MEAN 10.1	MEAN 12.5	MEAN 10.6	MEAN 4.01	MEAN 3.36	MN. 193	MN. 32	MN 19	MEAN 1.03	MEAN .45

## W A S E C A

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
6/ 1/83	22.4	7.9	0	4.83	3.93	97	28	97	172	17.1	11.8	14.3	12.2	.71	.62	204	28	2	1.00	.86
6/ 2/83	20.4	10.9	.25	4.32	4.32	95	64	103	178	17.4	13.4	14.8	13.2	2.72	2.41	155	27	10	1.44	.40
6/ 3/83	23.6	10.6	0	6.86	5.66	99	30	110	185	19.4	14.6	16.0	14.0	2.21	.59	271	69	27	1.38	.62
6/ 4/83	21.5	9.1	0	7.11	6.91	92	43	115	191	19.4	13.9	16.2	14.1	.78	.39	285	58	9	1.10	.66
6/ 5/83	15.9	8.0	1.27	1.78	2.53	100	67	117	194	16.7	13.8	16.0	14.0	3.28	2.89	331	28	17	1.25	.15
6/ 6/83	23.2	3.2	0	9.91	7.99	98	18	120	200	18.8	10.8	15.4	12.3	1.20	1.12	280	22	0	.71	1.08
6/ 7/83	26.9	6.9	0	8.38	8.00	79	16	127	209	22.1	13.1	17.5	13.7	.55	.29	276	56	0	.73	1.52
6/ 8/83	28.5	10.6	.25	7.37	5.29	76	19	137	218	21.8	15.7	17.9	15.6	.76	.39	195	57	5	.99	1.54
6/ 9/83	27.6	11.8	0	10.92	8.26	88	16	146	228	24.7	16.5	19.7	16.3	.95	.73	21	40	0	.97	1.50
6/10/83	32.0	16.5	0	10.67	5.41	64	28	160	241	23.3	18.4	19.8	17.8	.75	.60	148	37	1	1.42	1.72
6/11/83	29.3	16.8	.76	9.91	4.98	95	36	173	254	22.8	19.1	19.7	18.4	1.37	1.25	166	24	21	1.71	1.16
6/12/83	29.4	18.2	0	8.89	3.64	98	61	187	268	22.1	18.9	19.4	18.1	5.15	5.03	170	12	4	2.24	.66
6/13/83	30.1	16.7	19.30	8.13	3.14	98	55	201	281	22.5	20.0	19.7	18.7	5.41	4.55	172	32	28	2.16	.69
6/14/83	20.9	14.1	3.81	3.30	4.28	98	77	208	289	20.0	17.8	19.3	17.8	3.96	1.91	193	58	46	1.84	.14
6/15/83	20.6	9.9	0	8.64	6.75	98	65	213	294	19.7	15.8	17.8	16.3	2.42	1.91	254	37	18	1.51	.32
6/16/83	20.3	7.8	0	6.35	8.28	100	56	217	299	21.7	14.3	18.3	15.4	2.99	2.43	308	35	18	1.25	.46
6/17/83	22.8	9.8	7.62	4.32	4.39	97	54	224	306	20.6	15.9	18.1	16.2	3.02	2.80	93	22	4	1.40	.61
6/18/83	20.1	14.8	.76	3.81	3.39	98	87	231	313	19.1	17.1	17.9	16.7	4.91	4.68	111	18	52	1.81	.12
6/19/83	27.1	14.3	0	7.11	7.03	98	62	242	324	21.6	15.8	18.4	15.9	4.59	4.29	133	21	0	2.00	.49
6/20/83	25.4	16.8	9.65	4.06	3.81	98	83	253	335	20.6	18.0	18.4	17.3	5.01	4.70	138	20	14	2.33	.17
6/21/83	31.9	21.1	0	7.62	5.41	96	62	270	351	23.5	19.5	20.2	18.2	5.93	5.39	167	24	0	2.76	.66
6/22/83	32.5	20.8	0	9.14	6.08	92	62	286	366	25.9	21.1	21.9	19.6	6.41	4.57	214	43	0	2.77	.84
6/23/83	31.5	17.2	1.27	10.16	8.05	96	30	300	380	27.8	20.9	23.2	20.3	2.53	2.12	62	33	0	1.79	1.40
6/24/83	29.4	19.3	0	3.05	3.71	93	58	315	394	25.1	22.2	23.1	21.3	2.56	2.06	112	36	4	2.12	.75
6/25/83	34.0	20.4	0	12.70	7.55	95	35	332	409	27.4	21.0	23.2	20.3	4.52	4.15	203	23	0	2.15	1.60
6/26/83	32.7	20.6	22.86	8.38	4.11	97	45	349	424	26.9	22.9	23.1	21.8	2.46	1.37	208	54	18	2.46	.66
6/27/83	20.7	16.2	15.24	1.27	1.19	97	95	357	433	23.6	19.5	22.6	19.8	4.11	3.90	61	18	66	2.04	.09
6/28/83	18.1	14.7	23.88	0	1.12	98	93	364	439	19.5	17.7	19.8	18.0	4.46	4.30	81	15	69	1.78	.08
6/29/83	20.7	15.8	6.35	1.27	1.21	97	94	372	447	19.0	17.4	18.0	17.5	3.94	3.50	127	27	76	1.96	.08
6/30/83	29.8	16.7	87.63	0	6.97	97	76	385	461	22.8	18.0	20.0	17.6	4.82	3.76	200	38	51	2.42	.33
MONTHLY	MEAN 25.6	MEAN 13.9	TOTAL 200.90	TOTAL 190.26	MEAN 5.11	MN. 94	MN. 54	TOTL 293	TOT 295	MEAN 21.8	MEAN 17.2	MEAN 19.0	MEAN 16.9	MEAN 3.15	MEAN 2.62	MN. 178	MN. 34	MN 19	MEAN 1.72	MEAN .71
7/ 1/83	28.5	17.6	0	5.84	7.19	97	63	398	474	24.9	19.3	21.3	18.9	2.58	.40	278	75	23	2.34	.50
7/ 2/83	27.6	19.4	.25	6.10	5.52	95	78	412	487	23.2	20.6	21.3	20.0	4.62	3.94	159	31	4	2.66	.31
7/ 3/83	25.8	16.6	19.05	8.13	1.57	96	86	423	499	22.7	20.9	21.0	20.8	4.39	3.18	214	43	44	2.61	.22
7/ 4/83	24.3	13.4	1.27	7.37	7.13	96	60	432	507	21.4	18.1	20.7	18.9	4.82	4.04	270	33	3	1.79	.37
7/ 5/83	21.5	13.6	0	5.59	7.37	95	53	439	515	22.2	17.5	19.8	18.0	2.21	1.44	12	48	0	1.47	.47
7/ 6/83	27.8	12.5	0	7.37	7.11	95	65	449	525	23.7	17.1	20.6	17.9	3.66	3.50	170	17	0	2.00	.55
7/ 7/83	30.1	18.2	0	10.92	7.76	91	52	464	539	25.7	19.7	21.9	19.4	.96	.94	195	13	0	2.17	.92
7/ 8/83	33.5	19.6	0	9.91	7.54	91	41	480	554	27.7	21.3	23.6	20.8	1.05	1.01	205	15	0	2.32	1.20
7/ 9/83	32.7	20.0	0	9.14	7.69	94	43	496	569	29.2	22.8	24.8	22.1	2.94	2.70	175	23	0	2.34	1.21
7/10/83	33.9	19.5	0	8.13	7.66	93	34	513	584	29.1	23.7	25.2	23.1	4.21	4.02	181	17	0	2.26	1.39
7/11/83	27.7	15.6	0	8.38	7.65	88	41	525	595	28.7	24.4	25.2	23.6	1.71	1.29	226	40	1	1.91	1.07
7/12/83	31.8	13.1	0	8.64	8.05	96	22	537	607	29.2	22.2	25.3	22.7	.53	.38	202	42	22	1.58	1.44
7/13/83	34.4	20.0	0	8.89	6.31	81	40	554	622	28.9	23.8	25.4	23.4	1.37	1.30	190	19	0	2.24	1.41
7/14/83	33.8	20.8	0	9.65	7.21	94	48	572	637	29.7	24.3	26.0	23.8	2.17	2.11	194	14	5	2.58	1.16
7/15/83	31.4	21.3	1.27	6.60	4.97	93	53	588	653	28.1	24.8	25.8	24.2	3.79	3.60	172	18	6	2.57	.64
7/16/83	30.6	21.6	0	5.08	5.21	95	65	604	669	27.8	23.7	24.9	23.4	1.43	.98	175	46	0	2.76	.47
7/17/83	30.7	20.3	0	4.83	4.79	96	69	620	684	28.2	24.2	25.4	23.7	2.51	.28	155	76	2	2.64	.42
7/18/83	29.1	20.4	8.13	5.33	4.62	96	72	634	699	25.9	23.3	25.1	23.2	2.60	1.47	162	54	20	2.60	.38
7/19/83	34.0	21.7	16.76	11.18	6.64	95	64	652	714	28.5	23.2	24.9	22.9	3.60	2.58	153	43	11	2.91	.55
7/20/83	34.0	21.3	0	7.87	7.15	95	68	670	730	28.7	23.4	25.5	23.2	2.45	1.48	163	51	0	3.25	.59
7/21/83	35.7	25.0	0	9.65	7.36	93	55	690	748	30.5	24.6	26.7	24.1	3.87	3.17	228	34	3	3.16	1.13
7/22/83	33.5	22.6	0	5.84	6.13	94	71	708	764	31.7	26.4	27.8	25.5	1.79	1.59	346	27	29	3.17	.60
7/23/83	30.6	19.6	0	7.11	6.81	94	43	723	779	30.4	26.1	27.6	25.7	2.59	2.16	308	33	18	2.27	.86
7/24/83	27.8	17.1	0	4.57	5.68	95	55	736	791	29.4	24.7	26.9	24.9	1.43	1.16	360	35	11	2.05	.71
7/25/83	28.8	16.8	0	6.86	7.62	95	45	749	804	29.8	24.2	26.6	24.5	2.03	1.65	59	35	0	1.96	.86
7/26/83	29.7	17.1	0	7.62	6.68	93	54	762	817	29.1	24.1	26.4	24.5	2.92	2.59	167	27	0	2.20	.78
7/27/83	26.6	18.8	.25	1.52	2.64	95	85	775	830	26.6	23.3	26.0	23.7	2.84	2.24	173	37	27	2.47	.29
7/28/83	30.4	20.5	0	4.83	3.83	96	69	790	845	26.4	22.8	24.3	22.9	1.42	.57	79	63	61	2.78	.39
7/29/83	33.6	20.4	0	7.11	6.77	95	33	807	861	29.0	23.9	25.8	23.5	1.59	.75	21	59	32	2.36	1.22
7/30/83	32.1	18.9	0	8.13	6.13	94	49	823	875	28.9	23.9	26.1	24.1	2.02	1.59	221	37	1	2.39	.87
7/31/83	27.7	15.1	0	6.86	7.35	95	47	834	886	28.6	24.0	25.9	24.2	1.34	1.12	309	33	27	1.90	.82
MONTHLY	MEAN 30.3	MEAN 18.7	TOTAL 46.98	TOTAL 225.05	MEAN 6.33	MN. 94	MN. 55	TOTL 449	TOT 426	MEAN 27.5	MEAN 22.8	MEAN 24.6	MEAN 22.6	MEAN 2.50	MEAN 1.91	MN. 179	MN. 37	MN 11	MEAN 2.38	MEAN .77

## W A S E C A

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
8/ 1/83	30.1	12.3	0	5.59	7.42	96	40	845	898	28.6	22.3	25.7	23.4	1.14	.22	316	73	25	1.80	.98
8/ 2/83	32.4	16.6	0	5.84	6.72	93	61	860	911	28.9	23.3	25.9	23.7	1.95	1.78	162	24	0	2.46	.88
8/ 3/83	34.4	23.5	0	9.91	6.95	93	54	879	928	30.9	25.6	27.3	24.9	1.42	.65	302	60	14	2.91	1.04
8/ 4/83	32.1	21.4	0	7.37	7.04	94	55	896	943	31.2	26.1	27.8	25.8	2.34	2.08	53	27	30	2.66	.80
8/ 5/83	32.5	18.9	0	5.08	5.32	95	58	911	958	30.2	25.6	27.5	25.5	1.32	.61	116	60	39	2.48	.61
8/ 6/83	34.0	17.8	0	6.35	6.90	95	39	927	972	31.2	25.0	27.7	25.3	1.55	.80	356	57	26	2.36	1.13
8/ 7/83	35.2	16.5	0	8.64	7.16	95	31	943	985	30.9	24.8	27.6	25.3	2.18	1.88	227	30	23	2.18	1.33
8/ 8/83	30.2	18.2	0	8.13	7.00	94	29	957	999	30.3	25.2	27.3	25.6	2.26	1.30	6	53	12	1.80	1.26
8/ 9/83	30.6	13.7	0	7.37	5.86	94	30	969	1011	29.1	23.8	26.9	24.7	1.58	1.18	131	41	10	1.64	1.21
8/10/83	31.3	18.3	0	6.10	5.29	90	59	984	1025	29.7	24.7	26.7	24.8	1.47	.35	208	71	2	2.36	.87
8/11/83	23.7	15.2	0	3.81	4.49	95	66	994	1034	26.7	23.3	26.3	24.1	1.70	1.41	18	34	30	1.77	.39
8/12/83	27.8	12.1	0	6.10	6.09	97	57	1003	1044	27.1	21.3	24.7	22.7	1.03	.85	167	34	27	1.80	.61
8/13/83	29.7	15.9	0	3.56	4.82	94	64	1016	1057	27.2	21.9	24.7	22.7	1.67	1.15	211	45	7	2.20	.61
8/14/83	32.5	14.1	0	5.59	6.06	96	37	1030	1069	28.8	22.3	25.6	23.0	.93	.26	351	69	27	1.94	1.08
8/15/83	32.9	16.5	0	7.11	5.92	93	50	1044	1083	29.4	23.3	26.1	23.7	1.26	1.01	182	36	9	2.44	.92
8/16/83	33.8	21.1	.76	6.60	4.80	95	56	1062	1098	29.6	24.9	26.4	24.7	2.90	2.09	127	43	10	2.67	.79
8/17/83	30.3	19.9	0	4.32	4.79	95	65	1077	1113	29.3	24.6	26.2	24.4	1.93	1.26	350	48	34	2.53	.51
8/18/83	33.3	18.3	.51	4.57	4.67	94	52	1093	1127	28.5	23.9	26.0	24.1	3.10	2.35	163	40	36	2.62	.84
8/19/83	35.5	19.9	0	11.43	6.47	78	36	1110	1142	31.6	25.2	27.5	24.9	3.07	.93	286	68	0	2.20	1.62
8/20/83	31.6	18.1	15.24	9.40	5.95	93	36	1125	1156	29.7	25.2	27.2	24.9	1.92	1.44	92	40	13	1.80	1.28
8/21/83	25.8	19.5	2.79	1.27	1.99	94	87	1138	1169	25.4	23.4	26.4	24.2	2.00	.92	83	59	69	2.44	.23
8/22/83	27.0	16.9	0	5.33	5.27	94	43	1150	1181	25.7	22.5	24.2	23.1	2.50	2.12	40	32	12	2.00	.61
8/23/83	27.4	15.7	0	3.81	4.21	93	69	1161	1192	25.0	20.3	23.4	21.6	2.42	2.08	130	31	0	2.11	.42
8/24/83	27.5	18.3	24.13	7.62	3.52	93	81	1174	1205	25.6	21.6	23.4	22.0	2.87	2.54	147	27	28	2.49	.35
8/25/83	28.8	19.5	25.91	9.40	4.45	95	79	1188	1219	25.2	22.0	23.2	22.0	2.90	1.83	152	49	36	2.61	.35
8/26/83	31.5	20.7	16.51	8.64	5.05	93	69	1205	1235	26.2	19.3	23.9	22.3	2.93	1.75	152	51	23	2.83	.52
8/27/83	29.9	19.7	4.57	8.89	5.13	94	64	1219	1250	27.2	22.7	24.4	22.7	1.47	.34	207	71	42	2.51	.53
8/28/83	30.6	18.6	1.02	5.33	5.71	94	63	1234	1264	26.6	22.3	24.2	22.7	2.04	1.65	201	35	32	2.55	.58
8/29/83	32.1	19.1	25.65	12.45	5.45	94	63	1250	1278	27.4	20.7	24.6	22.6	3.03	1.50	208	58	11	2.60	.71
8/30/83	25.9	17.8	0	3.56	4.98	94	79	1261	1290	25.8	20.7	24.4	22.7	1.82	1.27	21	45	1	2.30	.33
8/31/83	27.9	15.6	0	4.32	6.07	95	53	1273	1302	26.3	20.8	23.7	21.7	1.51	1.16	77	39	3	2.06	.51
MONTHLY	MEAN 30.6	MEAN 17.7	TOTAL 117.09	TOTAL 203.49	MEAN 5.53	MN. 94	MN. 56	TOTL 439	TOT 416	MEAN 28.2	MEAN 23.2	MEAN 25.7	MEAN 23.7	MEAN 2.01	MEAN 1.31	MN. 169	MN. 47	MN 20	MEAN 2.29	MEAN .77
9/ 1/83	29.1	16.2	0	5.84	5.88	94	67	1286	1315	26.9	20.7	23.9	21.6	2.73	2.52	183	23	M	2.31	.52
9/ 2/83	32.3	19.0	0	7.37	5.95	93	62	1301	1329	28.6	22.1	24.9	22.3	3.25	3.06	190	20	M	2.52	.75
9/ 3/83	30.6	20.8	.51	6.10	4.39	87	52	1317	1345	27.4	23.0	24.7	23.0	.85	.81	193	18	M	2.29	.88
9/ 4/83	28.2	19.1	6.86	3.30	2.85	93	60	1331	1358	25.9	22.9	24.4	22.8	1.35	.98	193	42	M	2.28	.55
9/ 5/83	23.6	15.8	1.27	3.56	2.65	94	81	1340	1368	23.9	21.6	23.7	22.2	1.99	1.35	275	46	M	2.08	.23
9/ 6/83	22.8	10.9	0	4.83	5.62	94	30	1347	1375	23.7	19.5	22.2	20.6	1.43	1.16	268	35	M	1.33	.68
9/ 7/83	26.1	8.8	0	5.84	5.92	96	42	1355	1383	24.8	17.5	22.0	19.3	1.18	.79	206	47	M	1.48	.64
9/ 8/83	32.9	16.2	2.79	9.65	5.52	78	56	1369	1396	26.4	19.8	23.2	20.4	.60	.56	172	20	M	2.24	1.16
9/ 9/83	31.5	21.9	.25	7.62	5.22	89	61	1386	1412	27.9	22.7	24.4	22.3	1.23	1.13	209	24	M	2.67	.85
9/10/83	25.8	8.2	1.52	2.54	2.59	95	45	1393	1420	25.7	20.1	24.3	21.8	1.06	.82	289	39	M	1.75	.48
9/11/83	22.8	5.1	.51	3.81	5.21	97	33	1397	1426	23.7	16.7	21.8	19.1	1.20	.76	105	49	M	1.06	.66
9/12/83	17.9	7.6	0	2.03	2.98	96	61	1400	1430	20.7	17.7	21.1	19.1	1.62	1.41	25	29	M	1.23	.25
9/13/83	20.9	3.9	0	2.29	4.63	98	45	1402	1436	21.3	15.1	19.5	17.3	.63	.16	321	70	M	1.11	.41
9/14/83	19.3	6.4	8.89	4.06	2.42	96	60	1405	1440	18.8	15.7	19.1	17.2	1.21	1.15	126	19	M	1.24	.29
9/15/83	13.3	11.0	27.94	3.05	.33	96	88	1407	1442	17.2	14.6	17.9	15.8	3.22	2.88	148	26	M	1.33	.08
9/16/83	15.4	8.2	1.27	2.54	1.52	96	86	1409	1445	16.5	14.7	16.2	15.5	1.68	1.25	326	41	M	1.34	.11
9/17/83	22.7	7.4	1.02	3.81	3.70	96	74	1414	1451	17.2	13.1	16.1	14.7	2.72	2.45	141	25	M	1.52	.22
9/18/83	20.1	7.4	2.79	4.32	5.36	94	38	1418	1456	20.2	15.6	17.8	15.8	2.14	1.63	332	40	M	1.17	.58
9/19/83	10.7	6.6	50.80	7.37	.22	96	85	1418	1457	16.8	12.4	17.4	13.9	3.43	2.51	36	42	M	1.08	.07
9/20/83	10.4	4.3	0	1.78	2.24	94	73	1418	1457	12.9	11.0	13.9	12.9	3.91	3.50	306	26	M	.87	.14
9/21/83	8.9	2.8	1.02	1.02	1.89	95	71	1418	1457	11.3	9.5	12.9	11.6	3.09	2.88	283	22	M	.78	.11
9/22/83	8.6	-1.5	0	1.52	1.96	97	70	1418	1457	10.8	8.6	11.8	10.7	1.71	1.55	301	25	M	.72	.13
9/23/83	15.6	-2.6	0	2.54	5.33	98	29	1418	1460	12.6	6.5	11.6	9.3	.64	.55	192	30	M	.61	.47
9/24/83	22.2	7.0	0	4.57	4.81	86	42	1422	1466	16.0	8.9	13.6	10.4	.50	.48	184	19	M	.97	.71
9/25/83	27.0	9.5	0	2.79	4.90	95	36	1430	1474	20.3	12.7	16.4	12.9	.82	.52	159	49	M	1.38	.78
9/26/83	28.9	13.1	0	3.30	4.85	93	24	1441	1485	21.8	15.4	17.9	15.2	1.24	1.09	181	28	M	1.54	.84
9/27/83	30.9	15.9	0	9.14	4.76	91	20	1455	1498	22.4	16.8	18.9	16.5	1.34	1.27	181	19	M	1.44	1.31
9/28/83	29.4	16.3	0	2.54	3.15	89	38	1468	1511	21.7	17.9	19.0	17.5	.74	.69	174	22	M	1.72	1.00
9/29/83	24.7	16.5	0	3.05	1.40	92	64	1478	1522	20.4	18.8	19.0	18.1	.53	.38	153	43	M	1.86	.54
9/30/83	27.4	17.2	0	6.35	4.06	77	38	1491	1534	22.7	18.3	19.7	17.9	.45	.43	178	17	M	1.46	1.17
MONTHLY	MEAN 22.7	MEAN 10.6	TOTAL 107.44	TOTAL 128.53	MEAN 3.74	MN. 93	MN. 54	TOTL 217	TOT 232	MEAN 20.9	MEAN 16.3	MEAN 19.3	MEAN 17.3	MEAN 1.62	MEAN 1.36	MN. 201	MN. 32	M	MEAN 1.51	MEAN .55

## W A S E C A

DATE	MAX AIR TEMP	MIN AIR TEMP	PRE	PAN	SOL	RH MAX	RH MIN	ACCM D.D. BASE 10	ACCM D.D. BASE 1030	MAX SOIL TEMP 10CM	MIN SOIL TEMP 10CM	MAX SOIL TEMP 20CM	MIN SOIL TEMP 20CM	WIND SPD	VECT MAG	VEC DIR	VEC STD	LF WT	VAP PR	VAP PRES DEF
10/ 1/83	28.0	16.4	0	4.32	3.36	91	40	1503	1546	22.3	18.3	19.8	18.2	.45	.34	213	41	M	1.55	1.05
10/ 2/83	28.2	14.2	0	4.32	3.19	94	47	1514	1557	22.6	19.0	20.1	18.7	.79	.14	171	73	M	1.75	.66
10/ 3/83	14.5	10.8	0	M	1.04	94	80	1517	1560	20.6	16.8	19.9	17.5	2.55	2.29	322	26	M	1.29	.17
10/ 4/83	19.2	4.6	0	M	3.22	96	53	1519	1565	19.2	14.3	17.5	15.9	.78	.50	347	48	M	1.07	.32
10/ 5/83	21.5	4.8	0	M	4.56	96	35	1522	1570	19.6	13.8	17.4	15.4	1.03	.80	254	39	M	.96	.47
10/ 6/83	13.9	1.7	0	M	2.35	96	49	1522	1572	16.1	12.7	17.0	14.7	1.02	.26	216	70	M	.82	.32
10/ 7/83	16.3	8.9	0	M	.78	92	69	1524	1576	15.2	13.8	15.1	14.5	2.31	1.08	281	59	M	1.26	.24
10/ 8/83	14.4	3.5	0	M	4.47	92	37	1524	1578	17.1	12.2	15.4	13.7	1.80	1.52	40	32	M	.76	.39
10/ 9/83	15.6	1.4	.25	M	3.91	94	46	1524	1581	15.4	10.7	14.9	12.8	1.04	.99	131	18	M	.76	.41
10/10/83	13.3	7.4	39.37	M	.75	95	70	1525	1582	13.7	12.1	14.2	13.1	4.29	4.16	163	14	M	1.15	.15
10/11/83	14.1	3.1	.51	M	1.20	95	67	1525	1584	13.4	10.1	13.3	12.3	4.60	3.30	318	43	M	1.05	.20
10/12/83	6.3	-1.7	3.81	M	2.49	98	66	1525	1584	10.1	7.1	12.3	9.9	1.86	1.70	292	23	M	.57	.13
10/13/83	7.1	-1.4	1.27	M	2.55	97	70	1525	1584	9.7	6.2	9.9	8.6	2.08	1.82	296	29	M	.64	.08
10/14/83	10.9	-.7	2.54	M	3.67	97	49	1525	1585	10.9	6.3	10.1	8.5	3.13	1.42	284	60	M	.69	.18
10/15/83	14.7	5.8	1.27	M	.97	94	79	1525	1587	11.4	8.3	10.9	9.4	4.86	3.76	145	39	M	1.16	.14
10/16/83	13.1	2.7	0	M	2.60	96	62	1525	1589	11.1	8.5	10.9	9.7	2.20	1.99	256	25	M	.88	.18
10/17/83	14.8	-1.8	0	M	3.79	97	40	1525	1591	12.1	6.7	10.7	8.8	1.12	.86	178	39	M	.71	.32
10/18/83	15.4	5.2	2.54	M	2.39	87	35	1525	1594	11.8	8.4	10.9	9.6	1.67	1.54	141	23	M	.79	.47
10/19/83	8.5	6.7	25.91	M	.40	95	87	1525	1594	10.9	9.2	10.9	9.8	5.30	5.14	97	14	M	.96	.08
10/20/83	8.8	5.2	1.02	M	1.10	95	79	1525	1594	9.7	8.6	9.8	9.3	4.11	3.97	85	15	M	.87	.11
10/21/83	9.1	5.0	.25	M	.77	95	83	1525	1594	9.4	8.1	9.5	8.9	3.51	3.32	74	19	M	.91	.09
10/22/83	11.0	6.1	0	M	.80	94	85	1525	1594	10.1	8.9	9.9	9.3	3.17	2.98	17	20	M	1.03	.12
10/23/83	7.3	2.4	1.02	M	1.69	96	91	1525	1594	9.9	7.4	9.8	8.7	2.42	1.88	73	38	M	.79	.05
10/24/83	10.4	1.7	.25	M	1.30	95	85	1525	1594	9.1	6.5	9.2	8.1	3.60	1.00	262	69	M	.88	.08
10/25/83	12.5	-.9	0	M	3.11	95	40	1525	1596	9.5	5.4	8.9	7.4	3.28	2.73	241	33	M	.68	.26
10/26/83	14.9	.6	0	M	3.50	93	45	1525	1598	10.7	5.7	9.3	7.4	M	M	246	64	M	.77	.31
10/27/83	22.8	5.7	0	M	3.44	81	42	1530	1604	13.2	7.2	10.9	8.1	M	M	197	22	M	1.03	.64
10/28/83	13.5	2.1	0	M	3.43	91	44	1530	1606	12.7	9.5	11.1	10.2	M	M	296	43	M	.81	.36
10/29/83	11.5	-2.1	0	M	3.33	95	42	1530	1607	11.5	6.4	10.5	8.5	M	M	144	53	M	.58	.29
10/30/83	13.5	1.2	0	M	2.54	90	54	1530	1609	10.4	6.3	9.6	8.0	M	M	157	15	M	.75	.24
10/31/83	9.9	3.3	.51	M	.65	95	86	1530	1609	9.4	8.0	9.2	8.6	M	M	160	11	M	.96	.10
MONTHLY	MEAN 14.0	MEAN 3.9	TOTAL 80.52	TOTAL M	MEAN 2.37	MN. 94	MN. 60	TOTL 39	TOT 75	MEAN 13.2	MEAN 9.8	MEAN 12.5	MEAN 11.1	MEAN M	MEAN M	MN. 197	MN. 36	MN M	MEAN .93	MEAN .28

